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Transcript of

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Pesticide Program Dialogue Committee Meeting

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Radisson Hotel-Old Town

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901 N. Fairfax Street

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Alexandria, Virginia

13

November 29-30, 2000

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Waldorf, Maryland
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ATTENDANCE LIST

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2		
3	Jim Aidala	Associate Assistant Administrator for
4		Prevention, Pesticides & Toxic
5		Substances, EPA
6	Marcia Mulkey	Director, Office of Pesticide
7		Programs, EPA
8	Susan Hazen	Deputy to the Director, Office of
9		Pesticide Programs, EPA
10	Jim Jones	Director, Registration Division, EPA
11	Rick Kegl	EPA
12	Margie Fehrenbach	Designated Federal Officer, EPA
13	Ian Tinsley	Oregon State University
14	Warren Stickle	Chemical Producers & Distributors
15		Association
16	Bill Tracy	National Cotton Council
17	Larry Elworth	Center for Agricultural Partnerships
18	Steve Balling	Del Monte Foods
19	Dan Botts	Florida Fruit & Vegetable Association
20	William McCormick	Clorox Company
21	Sarah Lynch	World Wildlife Fund
22	Robert Rosenberg	National Pest Management Association

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ATTENDANCE LIST (Cont'd)

Phil Benedict	Department of Agriculture
J. J. Steinberg	Albert Einstein College of Medicine
Jose Amador	Texas A&M in Weslaco, Texas
George Pavlou	Director, Enforcement & Compliance Assistance Division, EPA Region II
Al Jennings	USDA
Terry Troxell	FDA

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1 Day One

2 November 29, 2000

3 PROCEEDINGS

4 MS. MULKEY: If we could take our seats, please.

5 MR. AIDALA: Well, why don't we get started,
6 Marcia.7 MS. MULKEY: Well, greetings to all of you. Jim
8 is going to formally welcome you, so I will not step on
9 that by spending a lot of time about how pleased we are
10 to see all of you.11 I will simply start by introducing Jim Aidala,
12 well known to all of you because of his long and
13 distinguished service in this arena on this topic and in
14 this place. Jim is the senior representative of the
15 Executive Branch leadership for this program, and is here
16 today to kick us off.17 MR. AIDALA: And thank you, Marcia. We thank
18 you for coming to the PPDC. We haven't met in a while,
19 and it's been an interesting year and an interesting few
20 months to go here.21 But generally notwithstanding all the other geo-
22 politics or whatever you might describe them as, this is

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1 an effort to really do the work -- more of the day to day
2 work of the program. And we very much appreciate all the
3 members here taking the time to come and help us out and
4 work on the variety of day-to-day issues and the
5 important issues that make the program run.

6 Some of the members that are on the panel here
7 are not able to be here because of some other reasons,
8 and we are pleased to have some substitutes for some of
9 those folks. For example, over at USDA there is the
10 Biotech Advisory Committee ongoing right now. I suspect
11 that's where Carolyn is. That's where Keith Pitts is,
12 and he offers his apologies. We've got Al Jennings here,
13 certainly no small substitute for the Department.

14 Terry Troxell is here from FDA for Bob Lake.
15 Adrienne Quintera will be here for Eric Olson from NRDC.
16 Nelson Carrasquillo, who is getting ready to be a
17 grandfather in Minnesota, is unable to attend. We hope
18 to have tomorrow Teresa Niedda. And then Ian Tinsley
19 representing Dr. Sheldon Wagner. Again, we appreciate
20 everybody taking the time and coming in to help us out on
21 the Dialogue Committee.

22 We've also added a few new members since our

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1 last meeting. Let me talk about that. That's in order
2 to replace some of the members who have retired or left
3 their affiliations and were no longer able to participate
4 as part of the PPDC. Edward Zuroweste from the Rural
5 Community Health Center in Chambersburg, Pennsylvania, a
6 practicing family physician who specializes in farm and
7 ag health issues, will be joining us tomorrow.

8 And we've also invited representation from the
9 animal welfare community, specifically PETA, the People
10 for the Ethical Treatment of Animals. They're unable to
11 attend today, but as we -- and Marcia will get more into
12 this later in terms of the re-chartering of the PPDC.
13 But as we reconstitute the PPDC, we will definitely have
14 animal welfare community representation on it.

15 And it has been a while since we met as a
16 committee -- as this committee -- and there has been --
17 some of you know some of the other ongoing activities as
18 members of CARAT, the Committee to Advise on Reassessment
19 and Transition, as well as its predecessor, TRAC, the
20 Tolerance Reassessment Advisory Committee. And obviously
21 those two other FACAs are where we've had a number of
22 public meetings to discuss transition, reassessment,

1 organophosphate risk assessments and other things.

2 Obviously there has also been a lot of Science
3 Advisory Panel meetings which are also public. For
4 example, the -- did we get a report of how long last
5 night they went on on StarLink?

6 FEMALE SPEAKER: 9:00.

7 MR. AIDALA: Until nine? Okay. A little bit
8 earlier than expected. But they went on until 9:00 last
9 night. But early reports were about to 11. At about two
10 in the afternoon, we thought it might go on to about 11,
11 so it's good that people got home. But the whole point
12 is that there are, you know, other activities -- other
13 public activities -- that we use as well as this
14 committee for public outreach and to give us advice.

15 And in particular, this group, the PPDC, has
16 been active in two work groups -- the inert disclosure
17 and rodenticide stakeholder work groups -- and obviously
18 the agenda today will include some reports from those
19 folks.

20 Again, Marcia is going to discuss more fully in
21 a minute about some of the issues behind re-chartering
22 the PPDC. We will go through a public process to invite

1 membership to this committee and obviously for
2 continuity, among other reasons, we'll expect many of you
3 to be invited back. And we hope that you're able to
4 continue participating in the PPDC. Again, tomorrow
5 there is time on the agenda to talk about the role of the
6 PPDC, and we'll ask your thoughts about the kind of
7 topics that we might want to engage in for this group to
8 cover during the coming year.

9 Again, this is, as always, an invitation to have
10 an open and meaningful dialogue on many issues --
11 important regulatory and other policy issues. And the
12 feedback is very important. The CARAT committee will
13 continue to focus on transition and reassessment, but
14 that certainly means there is no shortage of issues
15 outside of that bailiwick that are important for
16 pesticide regulation and pesticide policy. And obviously
17 those are the things that we expect in having this
18 discussion with you and the public in the next couple of
19 days.

20 Obviously, kidding aside, it's unknown what will
21 happen with the election. We can all speculate. But
22 notwithstanding that, it's a message we give our staff.

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1 Before, during and after early November is the -- you
2 know, whatever it is, day 29 of the election, that, you
3 know, notwithstanding whatever happens in the election,
4 there are important regulatory responsibilities that we
5 have as an agency, and those will continue.

6 It's a public agency and all that, and it is
7 really a testament to the system of government that we
8 have here that frankly notwithstanding all that other
9 brouhaha that, you know, the work will go on and the
10 government will survive. Things will get registered,
11 etc., notwithstanding all these other activities. Things
12 will get canceled, but that's a whole other discussion,
13 too.

14 **(Laughter)**

15 We do plan to have a summary of the past fiscal
16 year accomplishments, meaning sort of just a statement of
17 some of the things that we've done, both in terms of --
18 and the various actions we've taken in all of those
19 arenas -- registration, cancellation, etc. It's
20 completed as of now, but we're kind of recounting, if you
21 will, and making sure that numbers are square before we
22 release it publicly. That was for Margie.

1 **(Laughter)**

2 So blame Margie for that one. Again, there has
3 been a lot of progress made in the last year. I do
4 appreciate this committee. Again, compared to CARAT and
5 TRAC it's a much -- and to all of our credits, I think --
6 smaller, cozier group able to encourage more interaction.
7 And, again, we appreciate that and do want to continue to
8 encourage that. The issues are, again, larger than just
9 risk assessment and organophosphate assessments, and
10 those are the things that we especially are grateful to
11 have the PPDC able to help us out with.

12 This morning I'm going to be -- after some
13 initial sessions, I'm going to be away. I'll be back
14 this afternoon and, again, I'll be back tomorrow morning.
15 So, again, my apologies ahead of time for not being able
16 to be with you the whole time. And, again, passing on
17 Keith's apologies for not being here.

18 But before I do that, Al, is there anything from
19 the Department?

20 MR. JENNINGS: You've already mentioned all the
21 other advisory committees. And, I think like you, I
22 always viewed PPDC as one of the more useful

1 interactions, mostly because it is smaller and the
2 discussion and the dialogue does seem to happen better
3 here. So, again, given the choices I had of which
4 advisory committee to attend, I think I won in the
5 drawing of the straws. This is better than the biotech
6 one, for sure.

7 (Laughter)

8 MR. AIDALA: No comment on that, since my wife
9 is a facilitator of the Biotech Committee.

10 (Laughter)

11 MR. JENNINGS: It had nothing to do with the
12 facilitator, Jim.

13 (Laughter)

14 MR. AIDALA: But I'll let her know you said
15 that, Al.

16 (Laughter)

17 Anyway, before we do move onto Marcia's remarks,
18 I would just have the rest of the people around the table
19 introduce themselves, including panel members.

20 Again, I'm Jim Aidala here from EPA.

21 MS. MULKEY: Marcia Mulkey, EPA.

22 MS. HAZEN: Susie Hazen, Marcia's Deputy.

1 MR. JONES: Jim Jones, EPA.

2 MR. KEIGWIN: Rick Keigwin, EPA.

3 MS. FEHRENBACH: Margie Fehrenbach, EPA.

4 MR. TINSLEY: Ian Tinsley from Oregon State
5 University.

6 MR. STICKLE: Warren Stickle with the Chemical
7 Producers & Distributors Association.

8 MR. TRACY: I'm Bill Tracy, grower member of the
9 National Cotton Council.

10 MR. ELWORTH: Larry Elworth, Center for Ag
11 Partnerships and Steve's Deputy.

12 **(Laughter)**

13 MALE SPEAKER: Well, he says he's your deputy.

14 **(Laughter)**

15 MR. ELWORTH: I know.

16 DR. BALLING: We're still counting. Steve
17 Balling, Del Monte Foods.

18 MR. BOTTS: Dan Botts, Florida Fruit & Vegetable
19 Association.

20 MR. MCCORMICK: Bill McCormick, Clorox.

21 MS. LYNCH: Sarah Lynch, World Wildlife Fund.

22 MR. ROSENBERG: Bob Rosenberg, National Pest

1 Management Association.

2 MR. BENEDICT: Phil Benedict, Department of
3 Agric, representing states.

4 DR. STEINBERG: J. J. Steinberg, Albert Einstein
5 College of Medicine.

6 DR. AMADOR: Jose Amador, Texas A&M in Weslaco,
7 Texas.

8 MR. PAVLOU: George Pavlou, EPA Region II.

9 MR. JENNINGS: Al Jennings, USDA.

10 MR. AIDALA: Okay. Marcia, you're on.

11 MS. MULKEY: Thank you, and hello to all of you.

12 I trust that you all know and understand that the fact
13 that it has been some time since we convened as a whole
14 group doesn't mean that you aren't important to us and
15 that consultation is not important to us. In fact, to
16 the contrary. It does mean that we have put some
17 significant energies into other consultation processes,
18 including the CARAT. At this time of the year, I hear
19 jewels when I hear carat.

20 **(Laughter)**

21 Other times of the year, I hear long orange
22 things that you eat.

1 **(Laughter)**

2 But this time of the year, I hear jewels.

3 MR. AIDALA: Bill was just telling us that's the
4 money this year. I mean, I wouldn't knock on carrots
5 here.

6 MS. MULKEY: Yeah. Well, I said other times of
7 the year I think about the long orange things that you
8 eat. But at this time of the year I have twinkling
9 things in mind.

10 But in any event --

11 FEMALE SPEAKER: We'll have to tell Mr. Mulkey
12 about that.

13 **(Laughter)**

14 MS. MULKEY: Yes. Yes. Anyway, we have been
15 working hard to make that a meaningful consultation
16 process, and many of you have been involved in that or
17 aware of that. But we have had you in our hearts and
18 minds all along, and we are pleased that we are back
19 together as a group. We work to try to make this a good
20 meeting. We really want this to be about a consultation.

21 And while we do -- we have attempted to frame
22 some of the discussion with materials that the agency has

1 prepared, we really don't want this to be a talking heads
2 meeting, at least not a talking government heads meeting,
3 and we're going to try to avoid that. And we will try to
4 work through our presentations in a way that gets the
5 full hour we've allotted for discussion of the two heavy
6 topics -- residential issues and worker issues -- and
7 make that meaningful.

8 In addition, there are two areas where the
9 talking heads are work groups of your PPDC. We have two
10 very hard working, very active work groups, one on
11 rodenticides and one on inerts -- inerts disclosure
12 issues -- and we'll be hearing from them. So remember to
13 the extent that that is a presentation, that is the work
14 of a work group of this committee and not something that
15 we are bringing to the table unilaterally.

16 I want to spend a little bit of time talking
17 about a few hot issues, but first before I do that, I
18 want to spend a minute or two on the future PPDC. We
19 have a whole discussion set aside tomorrow about the
20 future of PPDC. But I want to make it very clear that we
21 believe the PPDC has a future, and that although the
22 membership is expiring sort of by operation of law, for

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1 lack of a better term, we are about to publish a
2 solicitation for nominations. That should be published
3 next week.

4 And so we are eager to know whether you
5 individually are eager to continue. We will not be able
6 to ask all of you to in order to have some opportunity to
7 broaden and vary participation, but we certainly want to
8 know who among you is eager to. And we also really value
9 any nominations that you might bring forward, because you
10 understand what is useful and what works for the PPDC,
11 and we'll look forward to hearing your nominations as
12 well as your own interests. And, of course, we will be
13 listening to others in that regard.

14 And we hope to reconstitute the PPDC very
15 quickly as soon as the nomination process closes,
16 basically, and have the opportunity to have meetings
17 whenever it seems best in light of what else is going on
18 with CARAT and other things.

19 I also want to spend a few moments this morning
20 talking about our senior leadership team in OPP. Many of
21 you have met Susan Hazen, who introduced herself
22 graciously by reference to my job. But in fact her job

1 is complete, important and in many ways very independent
2 of mine. She has a broad range of major responsibilities
3 in our program, including registration activities and
4 biotech activities, just to name two. And not
5 necessarily the two that on any given day are what
6 dominates, but they have certainly been dominant. And we
7 look to her and her considerable experience in helping us
8 all get it done.

9 Joe Merenda, who will be here and in fact has an
10 update for you, is our Deputy for Program Management.
11 And he makes sure that among other things we plan and
12 execute our financial human resources and programmatic
13 activities responsibly.

14 So the three of us enjoy the fact that there are
15 three of us, believe me, with the scope and difficulties
16 of this program. And I'm pleased that both of them are
17 able to spend some time here with us.

18 I want to spend a little bit time on the CARAT,
19 what is going on with the CARAT. Those of you who are
20 active in it I hope know as much as I know, because we've
21 definitely tried to be as transparent as possible about
22 what is going on. But at the end of the last meeting we

1 talked about both workshops and work groups as ways of
2 having deeper and more comprehensive work of that
3 organization outside of the CARAT meetings.

4 And we are proceeding as a committee there with
5 two of each. We're going to do a workshop on drinking
6 water assessment methodology. Based on consultation with
7 the CARAT members and from our folks, we now think this
8 will be scheduled in mid to late January. We're going to
9 do a workshop on worker risk assessment methods. This is
10 related -- interrelated with a lot of other activities
11 involving worker risk, many of which you will hear about
12 tomorrow, including a very significant public work
13 meeting regarding the worker protection rule and the
14 implementation of the worker protection rule. And in
15 order to integrate this work with that work, the worker
16 risk assessment workshop is now being contemplated for
17 early March.

18 And then two work groups, one on transition
19 issues to work on identifying barriers to the development
20 and adoption of new, safer and effective pest management
21 techniques, and also to help work with the agency to
22 figure out how we can best participate in that process.

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1 And we're contemplating soliciting participation in that
2 work group shortly, and the current anticipation is that
3 that work group can meet at about the same time as the
4 next CARAT meeting, which could be as early as February
5 if all goes well.

6 And then we also plan a work group on cumulative
7 risk, focusing on the appropriate role for public
8 participation in the regulatory -- in the risk assessment
9 and the regulatory part of cumulative risk. And we hope
10 to very shortly solicit participation in that work group
11 and aim for a meeting in January for that work group.

12 So that's the basic framework for activities of
13 the CARAT. We tell you, because quite frankly the amount
14 of activities we do there and the timing for that also
15 is, you know, sliced together with the amount of
16 activities and time that we spend with this advisory
17 committee. We also tell you because we know you are
18 keenly interested.

19 The other two, for lack of a better word, hot
20 issues -- we have many hot issues. All our issues are
21 hot, right? Prominent issues is what we put on the
22 agenda, because I didn't want to use the hot word on the

1 agenda. But the two that are probably most in the
2 forefront of your minds -- or may be -- are what's going
3 on with cumulative risk assessment and ultimately
4 regulatory results from that, and what's going on with
5 that protein that is showing up in parts of our food
6 supplies -- the StarLink or Cry9C.

7 With respect to cumulative, just a brief -- I
8 think the best thing for me to say about cumulative is to
9 talk a little bit about the timetable. This, again, is
10 not new news. I didn't come here to reveal something you
11 shouldn't already know or couldn't already know, in any
12 event. Just a few sort of backward and forward looking
13 dates.

14 It was in February of '99 that we did our
15 guidance for identifying substances with a common
16 mechanism of toxicity. So that is, you know, the policy
17 -- that first building block of the policy goes back to
18 that date. It became clear as a result of that what the
19 key elements then would be of a cumulative risk
20 assessment. And in June of 2000 we actually published
21 guidance -- proposed guidance -- on cumulative risk
22 assessment emphasizing the four building blocks of

1 cumulative risk assessment: hazard assessment, dose
2 response, exposure and then risk. How to think about the
3 risk in light of those elements.

4 That was published for public comment. Public
5 comment closed on August 28th of 2000 on that
6 methodology. And we have had a number of Scientific
7 Advisory Panel meetings, the most imminent of which is
8 December 7 and 8, where we will have a case study of the
9 cumulative risk of 24 of the organophosphates, which will
10 take the methodology, take some available data, and work
11 through the application of the process through those data
12 for purposes of getting scientific input on the
13 methodology as applied, which is one of the things that
14 an earlier Science Advisory Panel urged us to do.

15 And then we expect to take the public comment
16 process, all the learning we've engaged in as a result of
17 our work with the Science Advisory Panels, the learning
18 that we draw from having done this case study, and
19 finalize our policy -- our guidance -- on cumulative risk
20 assessment. And, of course as well, we are making
21 progress toward our capacity to conduct the cumulative
22 risk assessment of the organophosphates, which, as far as

1 we know now, is likely to be the first cumulative risk
2 assessment that we will conduct.

3 So that's the timetable on that. That's the
4 work that we're progressing. And as I said in at least
5 one other public forum, there is nothing going on in
6 cumulative risk assessment that you haven't seen,
7 especially now that we have put into the public docket
8 the work that is going to the SAP for the 7th and 8th.
9 So you can study the effect of our work there, as well as
10 hear what the scientists have to say and what public
11 commenters have to say about that.

12 The other matter -- and by the way, we have made
13 available to you as part of your packet, I think -- is it
14 part of their packet, Margie, or is it outside?

15 MS. FEHRENBACH: What is it?

16 MS. MULKEY: This sort of Q's and A's on
17 cumulative.

18 MS. FEHRENBACH: It's in the packet on the right
19 side.

20 MS. MULKEY: It shouldn't have anything new on
21 it other than some of the dates of some of these. In
22 fact, I think we prepared this in connection with the

1 public comment process on cumulative.

2 The other thing worth spending a few minutes on
3 is StarLink Corn. Those of you who have been following
4 this very closely know more about it than I do, although
5 not, I think, more than Susie does. But it is one of
6 many -- or several -- Bt products that were registered as
7 pesticides because the plant -- the corn plant in this
8 case -- expresses a protein which has the effect of -- an
9 insecticidal effect. And it's basically the same thing
10 as in bt spray, except this is brought forward from the
11 plant.

12 We had registered a number of these for use in
13 corn, including corn for human consumption. But one of
14 these is a little different. And in fact, part of the
15 whole idea of biotech is to get slightly different
16 proteins, because that had, as I understand it, some
17 advantages in terms of less resistance, and in general --
18 in very generic terms -- a good thing and not just an
19 economic advantage that comes from slight differences
20 across the proteins.

21 But this was a different protein that had some
22 different properties that raised issues that the others

1 didn't. In very simple terms, it didn't break down in
2 the human digestive system or the mammalian digestive
3 system as easily. As a result -- however, it does not
4 carry forward into the milk. And so as a result, the
5 company initially applied only for a registration for use
6 in corn that would be in animal feed and in commercial
7 products like oil. I don't think it goes in automobiles,
8 but, you know, oil. Commercial uses of oil and that kind
9 of thing.

10 And it didn't raise that issue there. We were
11 concerned about that issue. We were concerned about the
12 issue at the time we got the application and when we
13 subsequently got an application for human food use. But
14 we did register it for those more narrow uses along with
15 some requirements that the company assure that it be kept
16 to those more narrow uses.

17 Alas, in September of this year the corn was
18 found -- that is, the gene -- the gene modification, this
19 gene, was found in human food. Kraft store bought taco
20 shells, to be specific. And immediately all the relevant
21 parts of the government worked together and a number of
22 steps were taken, including a work out with the company,

1 that all of the crop that was not yet distributed and
2 processed would be purchased by the company. And I
3 believe USDA has worked with them to store it and
4 transport it at their expense. The company's expense --
5 ultimate expense.

6 And the company agreed to cancel that
7 registration, in part because it was obvious that the --
8 at least obvious to us; I won't say for the company --
9 that it was not practical and not workable, or that they
10 were not succeeding at keeping the corn from getting into
11 the human food chain. However, the tolerance for animal
12 -- the exemption from tolerance for animal food and these
13 commercial uses remained in place.

14 So people were not -- people who had grown this
15 corn solely for those uses, and the corn that USDA was
16 taking possession of, still had a lawful use -- still
17 does have a lawful use and so forth. And we then had to
18 gear up to deal with any future application for this
19 substance. But more importantly for the significance of
20 this material in the human food supply.

21 And so we announced a very robust science and
22 public participation process to look at the significance

1 of this. It's not as if that's the first time we had
2 looked at it. We had actually had a Science Advisory
3 Panel committee on the question of whether it's a food
4 allergen and how significant it is.

5 But just yesterday we had another -- and that
6 was this meeting that Jim was talking about. This very
7 long Science Advisory Panel meeting on the subject of
8 what are the health risks. We also heard a lot of public
9 comment about what ought to be our regulatory posture --
10 ours meaning the federal government's -- on the material
11 that may be in the human food chain now. And we expect a
12 report from our science consultation as soon as like
13 tomorrow or the next day.

14 MS. FEHRENBACH: Tomorrow or the next day.

15 MS. MULKEY: Very soon and extraordinary and
16 reflective of the sense that it is very important that we
17 get the benefit of the science advice. So that's the
18 story on that.

19 MALE SPEAKER: Marcia, can you eliminate one
20 thing that was raised in sort of an oblique way in that
21 editorial in the Post on Sunday, where FDA comes in on
22 this in terms of some of the decisions on the food

1 supply?

2 MR. AIDALA: Because, again as -- because part
3 of it has also been part of the understanding for some of
4 the folks that have now become players in StarLink, it's
5 a question about why is EPA involved at all.

6 MALE SPEAKER: Right.

7 MR. AIDALA: And Marcia just said it's a
8 pesticide that is engineered in the corn, and pesticides
9 are our regulatory bailiwick per FIFRA. FDA is the
10 enforcement arm, and so per se FDA is the folks who then
11 go and say, hold it. If this is appearing -- a
12 pesticide, even thinking in terms of conventional
13 pesticides, if this appears in food in interstate
14 commerce, it's a violation of the Food and Drug Act, and
15 they're the enforcement arm of the pesticide regulatory
16 mechanism.

17 So FDA per se is this, quote, this simple
18 enforcement function, which obviously is not simple. But
19 that gets into the issue of, again, is it -- who goes out
20 and samples. Who goes out and says what can and can't
21 happen to the food, etc., etc. And they also have
22 jurisdiction over animal feeds, so obviously they are,

1 you know, responsible there.

2 And then this issue gets into things like what
3 is allowed for export, because, again, right now per the
4 agreement -- the original registration agreement -- it
5 was forbidden to be exported per se. But obviously there
6 has been some -- you know, it's going to be exported for
7 animal feed. Should it be. Can it be. It's also gotten
8 into international trade issues about, you know, whether
9 our trading partners will accept and all that thing.

10 And that's been one of the ways the three
11 agencies -- and frankly more than three agencies. But
12 primarily USDA, EPA and FDA have been working together
13 literally. You know, not just daily but, you know,
14 hourly since this thing broke to kind of make sure that
15 we're working together and in effect not tripping over
16 each other. And we're doing a pretty good job on that
17 part, at least.

18 MALE SPEAKER: Has any formal regulatory actions
19 taken place, or has it all been voluntary?

20 MR. AIDALA: Per se, as I understand it -- well,
21 FDA is not here per se. As I understand it -- oh, FDA is
22 here? Well, speak up.

1 MIKE: Yeah. I'm representing Bob Lake, and I
2 came in late and I apologize. But the question is about
3 formal regulatory actions?

4 MALE SPEAKER: Yes.

5 MIKE: As far as I know, we would consider a
6 recall a voluntary regulatory action. And as far as I
7 know to date, that is the type of actions that have taken
8 place, so we would not consider them to be formal, as
9 would be something like an FDA seizure of a product.

10 MR. AIDALA: You may want to describe a class
11 two recall business, because I think that may be part of
12 what confuses some folks. It certainly confused me when
13 I first heard about it. So you may want to talk about
14 that, given that the private concern does a voluntary
15 recall, what you all do with it.

16 MIKE: A recall is voluntary inasmuch as it is
17 undertaken by the party that is responsible for the food
18 item. Once the recall is initiated, however, FDA audits
19 it according to a classification scheme. And our scheme
20 breaks the classifications down into class one, class two
21 and class three.

22 To make a long story short, class one recalls

1 are supposed to be done all the way to the retail level.
2 Class two recalls are only required to be done to the
3 distribution level. Class three recalls tend to be
4 technical violations, such as labelling violations that
5 may have no public health impacts.

6 So we have to date handled these as class two
7 recalls. But my understanding is that the recalling
8 firms have in many cases gone all the way to the retail
9 level. But our auditing scheme for a class two recall
10 would require that the responsible party only go to the
11 distribution warehouse level.

12 MR. AIDALA: Okay, thanks.

13 MS. MULKEY: One thing that helps me to think
14 about this is legal authority and sort of expertise, and
15 they're not necessarily always exactly the same. And so
16 we sort of each have our clear roles in terms of legal
17 authority. But we are trying to collaborate around our
18 respective expertise as well. I think one of the things
19 that that article sort of missed was that distinction.
20 And EPA is not trying to substitute its expertise for
21 areas where it may exist elsewhere, or at least not to
22 isolate our expertise from that of USDA or FDA or

1 wherever it may be.

2 MALE SPEAKER: Yeah. I thought the article
3 missed the point in a couple of places.

4 MR. AIDALA: Yeah. And basically the way the
5 three agencies -- and frankly there have been more than
6 that, because there is also, for example, the trade rep's
7 office and other folks involved, and the State Department
8 in terms of international relations and things, too.

9 But in terms of the three agencies, the world of
10 corn or the world of grain, if you will, we primarily
11 look to the department for sort of the expertise, as
12 Marcia just said. FDA is those folks that do food, if
13 you will, and again, know the food distribution system
14 and know how people make it. They have the expertise to
15 evaluate claims in those regards.

16 And we're the pesticide regulatory authority per
17 se, but that gives us sort of a dominate role in terms of
18 the safety question, which is why we have empaneled the
19 SAP and talked about, as Marcia indicated, the robust
20 public process on trying to come to a conclusion about,
21 shall we say, the -- it would be a misnomer to say the
22 safety per se, but rather the formal before us is whether

1 or not to grant an exemption from tolerance.

2 MIKE: One other thing I would --

3 MR. AIDALA: Sure.

4 MIKE: One other thing I would say is inasmuch
5 as FDA's role is enforcement, in many cases an
6 enforcement action initiates when a firm comes forward
7 and says we've found, you know, this issue with respect
8 to our food and we're going to do a recall. In other
9 cases it arises from FDA's monitoring programs which
10 consist of our domestic pesticide compliance program,
11 where we're going out and taking about 3,000 or 4,000
12 samples a year, and special surveys that we run to target
13 certain situations which we think require our attention.

14 So depending upon how this plays out, we may
15 have to make some decisions with respect to how we're
16 going to monitor for this problem in the food supply as a
17 result -- within our ongoing monitoring function. So if
18 there are going to be future enforcement situations that
19 arise, they could very well come out of a FDA monitoring
20 program where we're out there playing the role of the cop
21 on the beat, in addition to firms coming forward and
22 saying to us, we've found this problem and here is what

1 we're going to do, where we would be auditing the recall.

2 MR. AIDALA: Again, thanks.

3 MS. MULKEY: Steve?

4 DR. BALLING: Well, actually the timing is good
5 for this, because Mike just referenced it, and that is
6 relative to monitoring. One of the really troubling
7 aspects of this, for those of us in the food business at
8 least, is the testing part of the procedure, the lack of
9 repeatability and reliability of the tests, and the
10 number of false positives that have been seen. When you
11 send the same sample out to multiple labs, you get
12 completely different results. We've certainly seen that
13 internally with some of our products.

14 And yet we have to establish an enforcement
15 system that relies on unreliable laboratory results.
16 That's a really scary aspect of this whole thing. And
17 I'm wondering if FDA or EPA, either, are doing some more
18 work on trying to establish more reliability.

19 MR. AIDALA: Well, two things. One is in terms
20 of having a method per se, as you know, that's part of
21 the registration requirements.

22 DR. BALLING: But it wasn't in this particular

1 case.

2 MR. AIDALA: Oh, no, we had one. The question
3 is whether FDA had it, used it, etc. The larger point --
4 two points. One is finding the DNA per se as separate
5 from the protein. In this particular case, the protein
6 is the question. For example, I'm told that -- and
7 obviously we have no way of knowing about this. But NFPA
8 announced yesterday they have a method to detect the
9 protein and have some results from whatever, you know,
10 tests they've done. Now, again, we've not seen that. We
11 will see that. We will obviously consider that as part
12 of our final deliberations if we can get a look at that,
13 etc.

14 The larger question -- the direct answer to your
15 question is, is right now the issue is what about the
16 situation given the corn that is out there in commerce in
17 corn products. We have not -- although we obviously know
18 we will have to have sort of an assessment of what I call
19 personally lessons learned, I do think -- and, again,
20 personally predicting -- that you're going to see a
21 change in a whole bunch of arenas vis-a-v biotech,
22 including things like what you just said.

1 For example, if the formal regulatory
2 requirement of FIFRA allows you to look at DNA but your
3 issue is protein, shouldn't you make sure you have both.
4 Shouldn't you make sure that -- again, we're sort of
5 familiar with the world of conventional chemicals. In
6 the world of conventional chemicals, even if it's hard in
7 terms of a single assay method instead of a multi assay
8 method, you know, there is some level of, you know,
9 expertise and familiarity with it. This is part of that
10 whole sort of more emerging technology arena.

11 So, you know, I do think basically the short
12 answer is yes, we haven't thought specifically -- or had
13 specific thoughts about it. But that's obviously part of
14 what we're going to have to do in some kind of
15 retrospective about the situation. And I do think that
16 the kinds of issues that you raised are ones that will
17 not be the same in the future, you know, after September
18 when it was all started versus before September.

19 MS. MULKEY: Well, it's not surprising that
20 there is a lot of interest in this committee, and I would
21 suspect in the public here, in this topic. That's one
22 reason why I included it in my earlier remarks. But we

1 really have not included it as a major agenda item.
2 Susie is following it very closely on behalf of OPP. And
3 we'll be here throughout most of today, if not every
4 minute of it, and invite you to have side bars if that
5 would be helpful on this topic.

6 Susie, is there anything you think you need to
7 add?

8 MS. HAZEN: No. Just I'm here, and so if there
9 are other questions on this outside, just grab me.

10 MS. MULKEY: Because we do like to take
11 advantage of the fact that we're spending this time
12 together even outside the agenda. But we also like to
13 stay on the agenda and keep with our timetable, which
14 calls for a shift to a topic involving experimental use
15 permits.

16 Those of you who are in the registration
17 business, or interested in transition issues, or have an
18 interest in even nonagricultural pesticides -- although
19 most of the EUP issues have been agricultural -- know
20 that for some time experimental use permits can require
21 so much work and science that they have not been
22 necessarily readily available. And we've heard about

1 this and we've understood some downside to that. I'm
2 talking now about experimental use permits where you can
3 sell the food. There is no real -- it's not as hard to
4 get one where is destruction of the crop, but that can be
5 a pretty pricey business.

6 So Jim has -- Jim Jones, who directs our
7 Registration Division, has been working, hearing you,
8 trying to get input from you and wants to use this
9 opportunity to further that with regard to a proposal
10 relating to experimental use permits.

11 So, Jim?

12 MR. JONES: All right, thanks. I'm going to
13 give a little bit of more context and then turn it over
14 to Rick Keigwin who is going to walk you through the
15 details of the proposal that we've got here today.

16 As Marcia mentioned, we have not been issuing
17 very much experimental use permits with a tolerance,
18 meaning that not only could you experimentally use the
19 pesticide, you could then sell your crop legally after
20 you had done that. And that has been a problem for many
21 of those in the user community in particular, but also
22 for the registrants as well.

1 A little bit of the context behind that, back in
2 1997 -- and actually this is somewhat unrelated to FQPA,
3 although it did happen around the same time -- we
4 initiated after a significant amount of public comment
5 what has been commonly referred to -- we refer to this
6 ourselves -- as the priority system. This system is
7 designed to order -- rank order -- the way in which we do
8 our business.

9 And when you have more petitions than you have
10 resources to handle, you have to make choices about what
11 to do first. And we've discussed our priority system in
12 this meeting numerous times over the years. It's a
13 process that we've always done through public comment.

14 Coming out of that, the public comment process
15 and subsequent revisions to it, the priority system,
16 which gives priority to reduced risk compounds, methyl
17 bromide alternatives, OP alternatives and then IR-4
18 submissions as well as company priorities, we have found
19 after the implementation of that process that EUPs with a
20 tolerance have just not gotten priority. They didn't get
21 priority from the manufacturers, and they weren't getting
22 priority because we didn't identify them specifically

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1 either as a reduced risk alternative or an Op
2 alternative. They didn't have their own independent
3 priority.

4 After several years of working through the
5 priorities using our system, we have found very few --
6 the results have been very few EUPs with a tolerance.
7 And I think that one of the messages that we've gotten
8 throughout the process, both explicit and implicit, is
9 that there is a greater desire for Section 3
10 registrations for new chemicals and new uses than there
11 is a desire for EUPs with a tolerance. And therefore you
12 can see that the priority system is delivering what the
13 customers are asking for.

14 However, that being said, there is clearly a
15 desire on the part of more so the growers than the
16 industry, but the industry as well, for more EUPs with a
17 tolerance, in particular as growers struggle with
18 transition issues. So what we have tried to do in this
19 proposal is maintain our basic overall priority system.
20 But it's not really the priority system we're trying to
21 protect. We're trying to protect the new chemical and
22 the new use registrations that we have historically

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1 committed to and continue to commit to.

2 As we hear over and over again, although we want
3 EUPs with a tolerance, we don't want you to do fewer new
4 chemical registrations or fewer new use registrations.
5 So we've tried to come up with a way in which to both
6 maintain the productivity of the program for Section 3
7 registrations while increasing the number of EUPs that
8 will have a tolerance.

9 And what you'll hear today is a proposal that we
10 -- it's a proposal, and we're going to get not only the
11 comments of the PPDC, but we'll get a fuller vetting
12 through some type of a public process, either a PR notice
13 or a FR notice. We think it is a proposal that meets
14 those objectives.

15 So with that, I'll turn it over to Rick who will
16 sort of walk through the proposal.

17 MR. KEIGWIN: Okay, thanks. As Jim was
18 mentioning, we haven't issued that many EUPs for food
19 uses with a tolerance post-FQPA. And in an attempt to
20 address concerns raised by growers, and registrants to a
21 degree, we have tried to create a program that meets the
22 grower's needs for greater utilization of new

1 technologies under -- or prior to registration. That
2 still allows us to make the safety finding so that we can
3 put a tolerance in place and then allow the food to go
4 out into commerce, while at the same time protecting the
5 new chemical and new use registration resources, and yet
6 at the same time providing us with some flexibility.

7 So the criteria that we'll walk through today
8 are first cut attempts. Some people might call them --
9 if a chemical or an action meets these criteria, they are
10 no-brainers. There is probably some room to expand these
11 criteria a little bit, and that's in part what we're
12 hoping to get through the various public processes that
13 we'll be engaging in.

14 (END OF TAPE ONE, SIDE A)

15 MR. KEIGWIN: -- requirements we have to make
16 before the agency can issue an EUP, and they fall both
17 under FIFRA and FFDCA. Section 5 of FIFRA requires us to
18 determine that the EUP is needed to gather useful
19 information that can't solely be for purposes of
20 marketing new compounds. It's really to focus on label
21 refinement, efficacy and how the chemistry fits in with
22 the agricultural production process. What is its niche.

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1 What is its fit within the agronomic system. And also we
2 have to make a finding that there is no unreasonable
3 hazardous effects.

4 On the FFDCA side, this only comes into play
5 where we need to establish a tolerance. It's similar to
6 any other tolerance that we have established post-FQPA,
7 that there is a reasonable certainty of no harm from
8 aggregate exposures.

9 With that, a great deal of data needs to be
10 reviewed. The regulations call for a very narrow set of
11 data. But as we've encountered with the passage of FQPA,
12 there is a full arrange of data that we need to evaluate
13 in order to make the FQPA safety finding, and obviously a
14 great deal of environmental FATE data in order to
15 properly characterize the contribution or the attempts of
16 the pesticides to get into water systems.

17 The regs, for example, call for a limited amount
18 of data on developmental and reproductive toxicity with
19 FQPA. We want to look at that more fully. We need to
20 look at aggregate exposures, whereas in the past,
21 pre-FQPA, when we issued temporary tolerances we focused
22 on incremental risk as opposed to full aggregate risk.

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1 And the other aspect of this is that often now
2 when we do receive food use EUPs, the registrants are
3 submitting the chronic studies. And when we receive the
4 chronic studies, we generally at least want to take a
5 look at them to make sure that there is nothing in there
6 that would cause us to be alarmed.

7 So as with any of our regulatory decisions,
8 we're going to follow a fairly standardized scientific
9 review process, reviewing all the necessary data,
10 evaluating the data through our internal peer review
11 process, conducting risk assessments and making any
12 applicable safety determinations.

13 So now it's probably at the point where we'll
14 just quickly walk through the criteria. As I mentioned,
15 these are first cut, preliminary, open to suggestions.
16 But in designing the program we wanted to come up with
17 criteria that not only were easy to understand, but that
18 could also be easily applied. We wanted clear criteria
19 where the regulatory staff could make these
20 determinations without a significant or in depth
21 scientific review. Basically, we're trying to rely upon
22 existing risk assessments that the agency has recently

1 conducted.

2 Jim touched on some of this earlier in his
3 opening remarks. But the resources to evaluate new
4 chemical EUPs are pretty much identical to new chemicals
5 for registration. Our review times for those have been
6 relatively identical, and I think in large part that's
7 why registrants have opted to pursue registration rather
8 than seek an EUP first.

9 Even for an older chemical that has not been
10 through an FQPA type of process, there is still a
11 significant amount of review work that we would have to
12 do even to issue a food use EUP. We need to re-look at
13 those studies for, for example, susceptibility
14 determinations. We need to look at aggregate exposures.
15 We need to look at contributions to drinking water.

16 And for those types of actions, there could be a
17 significant impact on resources if we were to find ways
18 to address those. And maybe through other fora we can
19 come up with ways to address those types of chemicals or
20 chemicals meeting those criteria. But what we'll present
21 are at least a subset of chemicals that we think that we
22 can fairly easily make some safety determinations for and

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1 expedite EUPs through the process.

2 I think we can just skip over this one, because
3 that's really a repeat. So the proposal that we're
4 presenting today, we would at this point limit it to
5 methyl bromide replacements, reduced risk compounds and
6 OP alternatives, provided they have registered food uses
7 post-FQPA.

8 And we're even being a little bit stricter in
9 this early phase. What we're saying is not only
10 chemicals that meet that first bullet, but also chemicals
11 that there has been an agency decision since October of
12 1998. The reason why we chose that is those are the
13 chemicals that have used the more modern or current
14 approaches to how we do aggregate risk assessments and
15 the FQPA safety factor peer review committee had been
16 fully in place by then. So we have very high confidence
17 in those compounds that we can heavily rely upon those
18 previous science determinations to make these EUP
19 determinations.

20 Also, in an effort to -- because our intention
21 is not to heavily rely upon our science divisions to do
22 these reviews, we want to limit chemicals at least in the

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1 first year of this to those types of application methods
2 or use rates where we've at least looked at that for
3 another crop previously. So, for example, if the
4 registered food use a seed treatment only, and then the
5 EUP was for a foliar application in an orchard, obviously
6 the exposure scenario is very different. And our
7 intention is not to have to redo scientific assessments
8 necessarily in order to issue these EUPs. Obviously a
9 foliar use results in much higher potential worker
10 exposure than a seed treatment use.

11 A couple of risk cup type issues, and again
12 these are -- we think that there is some room, and we
13 welcome your comment for all of these criteria that we've
14 developed. Dietary issues. We would propose that, again
15 at least initially, that the existing uses utilize less
16 than 50 percent of the acute risk cup and 60 percent of
17 the chronic risk cup. This is using the agency's most
18 recent assessment. And that the proposed new use, or EUP
19 use, would utilize less than 10 percent. We actually
20 think that that third bullet there is very likely to
21 happen under an EUP scenario, anyway.

22 In terms of acreage, our initial thoughts were

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1 that major uses would be limited to about no more than
2 2,000 acres. That's actually pretty typical for a food
3 use EUP for a major use. For an aquatic use or a minor
4 use, our initial thinking was more in the hundred acre
5 range. I know some growers might think that for
6 certainly some of the major minor uses, if you will, that
7 that's too limited. And so that's an area for
8 discussion.

9 Watershed limitations. Our initial thoughts
10 were no more than 100 acres in a watershed. This, again,
11 is so that we don't have to re-look at the drinking water
12 assessment that we've previously done. Now we're not
13 talking about the Chesapeake Bay Watershed or the
14 Mississippi River Basin. What we're talking about is how
15 the U.S. Geological Survey defines -- I think what they
16 call cataloguing units. There are over 2,000 what they
17 call watersheds or cataloguing units, and we would
18 propose to use that as the definition for watershed for
19 these purposes.

20 This next slide is really what we've generally
21 done by EUPs, both pre- and post-FQPA. These are more on
22 the FIFRA side of things. Counties where we have

1 significant endangered species concerns, we would either
2 opt them out of the EUP program or try to work with the
3 State heritage programs to minimize or eliminate any
4 impacts on endangered species.

5 Typically EUPs have been issued for one year
6 with opportunities to renew them on one year increments.
7 We propose to keep that pretty much the same. And then
8 we don't get many EUPs for residential uses, anyway.
9 When we do, they tend to be things where registrants want
10 to do some consumer preference testing, if you will,
11 prior to registration. One of the reasons, again, that
12 we would propose to limit most of them out is so that we
13 don't have to revisit our aggregate exposure assessment.

14 The next few slides, we'll just quickly run
15 through them. These are the chemicals that have been
16 registered by EPA since October of 1998 that are either
17 methyl bromide replacements for some uses, reduced risk
18 or OP alternatives. It's not an exhaustive list. There
19 may actually even be some chemicals up there that on
20 their face don't meet all of these criteria. There may
21 be other chemicals that were reviewed post-FQPA that
22 should be on this list, and so we would invite that. But

1 we've delineated them here for this purpose as
2 fungicides, herbicides and insecticides.

3 Again, our intention is really to be flexible,
4 but we also want to have a program that is going to be
5 useful to growers. If what we've designed here is too
6 limiting, we want to see how we can expand it. At the
7 same time, our most important priority is to make sure
8 that we're being protective. Protective of the food,
9 protective of people, and yet to protect our resources,
10 because we really don't want to be shifting resources to
11 reviewing EUPs and sacrificing new chemical and new use
12 decisions while we're trying to do this.

13 We're going to have a public comment process.
14 This is obviously part of that process. We're currently
15 drafting some type of either a PR -- a draft PR notice or
16 a Federal Register notice that would go out in the next
17 few months. And then obviously some type of an
18 implementation schedule would be developed as part of
19 that public comment process.

20 So with that, that's sort of it in a nutshell.
21 I'll take some questions.

22 MS. MULKEY: We have about 30 minutes for

1 questions and discussion, so let's hear from you.

2 DR. BALLING: A couple of questions. One, back
3 on the acreage limitation --

4 MR. KEIGWIN: Uh-huh.

5 DR. BALLING: And you mentioned that some of the
6 major minors might -- some discussion might need to
7 occur, because what is it, 300,000 acres is the cutoff?

8 MR. KEIGWIN: That's the cutoff for major
9 minors, right.

10 DR. BALLING: So if you're 3/10, then you can
11 get up to 2,000 acres, and if you're at 2/9, you can get
12 100.

13 MR. KEIGWIN: At 2/9, right. So obviously there
14 needs to be some flexibility.

15 DR. BALLING: Yeah. Maybe some thought about as
16 a percentage of the total crop and the geography spread
17 of the crop? Because those crops that are only in
18 California -- almonds for instance -- probably don't
19 necessarily need 2,000 acres. But apples spread out all
20 over the U.S. are going to need it.

21 MR. KEIGWIN: Uh-huh.

22 DR. BALLING: The watershed thing also is a

1 little bothersome. Again, I'm not quite sure how USGS
2 defines a watershed.

3 MR. KEIGWIN: Yeah. They're fairly narrow,
4 actually. I was just looking on their web site this
5 morning to get a sense. And the first ones that they do
6 are in Maine, and I think they have about 100 watersheds
7 just in the State of Maine. So, you know, along the
8 Mississippi there are probably hundreds of what they call
9 watersheds.

10 DR. BALLING: Yeah, hopefully that's not one.

11 MR. KEIGWIN: Yeah, hopefully that's not one.
12 They don't define it as one. For their purpose it's
13 relatively narrow. What we're trying to avoid is a
14 concentration of EUPs in any one watershed that would
15 cause us to need to reconsider any drinking water
16 assessment that we've previously done.

17 DR. BALLING: So this is drinking water based?

18 MR. KEIGWIN: These are drinking water based.

19 DR. BALLING: If there was no expectation that
20 the chemical -- you've already done 75 percent of the
21 work on it. You certainly have some knowledge whether it
22 would move into the drinking water for some reason.

1 You have no expectation would you need to
2 maintain that concern?

3 MR. KEIGWIN: I think, again, the area here, we
4 want to be flexible. But at the same time, we don't want
5 to have criteria that are difficult for our regulatory
6 staff to understand. Generally speaking, we're not
7 intending to have a full science review of the EUP. So
8 if we can develop some criteria that address that point,
9 but are easy to implement, easy to understand and easy to
10 explain to people. And not just to the growers who might
11 be utilizing the chemical under the EUP, but the public
12 generally, then we could try to develop them.

13 These are the guidelines. They will be rules.
14 And if you were to come in with a compound that had -- we
15 had no expectation of previous reviews, because it's not
16 mobile and it's not persistent, and are they ever getting
17 into groundwater --

18 DR. BALLING: You can make that argument.

19 MR. KEIGWIN: Right. Then we could consider
20 going to some higher level in a watershed, yes.

21 DR. BALLING: And there may not be any need to
22 do it. I just don't want to be bound to those kinds

1 of --

2 MR. KEIGWIN: And the other thing on your
3 earlier question, what would be useful through the cup
4 full counter process is to get a handle on -- for those
5 of you who are involved in major/minor crops -- what size
6 of EUPs have you had that you would think would be --
7 even if you haven't had them. But how big would it need
8 to be to give you the kind of information that you would
9 require to have confidence in how the compound is used.

10 I mean, I'm not -- it's not clear to me you
11 would need 1,000 acres or 500 or 200. I'm not -- I don't
12 know. But you probably do have some sense.

13 DR. BALLING: That's a good point.

14 MR. KEIGWIN: And those of you in the business
15 could sort of feed that to us.

16 DR. BALLING: That's a good point. We can do
17 that. One other question on -- because we're speaking in
18 generalities. So it's kind of hard to know what the
19 details might be relative -- I'm thinking about this --
20 you're doing 75 percent of the work for an EUP than you
21 would do for a new chemical.

22 MR. KEIGWIN: If it's one that is a new chemical

1 EUP.

2 DR. BALLING: Right.

3 MR. KEIGWIN: Right.

4 DR. BALLING: Is this sort of the first 75
5 percent, so that in theory when you're that far along on
6 a new chemical, you could actually start allowing EUPs
7 before you finish the last 25 percent, or is it something
8 totally separate that you have to do and that is not
9 accumulative in the new chemical registration process?

10 MS. MULKEY: The 75 percent was not for a new
11 chemical. It was like 100 percent for a new chemical, if
12 I understand the chart.

13 MR. KEIGWIN: Right.

14 DR. BALLING: No, I understand that.

15 MS. MULKEY: Yeah, 75 percent was a new use.

16 MR. JONES: We've actually -- we've done them
17 just before a new chemical, because we were far enough
18 along to do an EUP, but not far enough along to register
19 it. But the timing of it has to be -- you have to be
20 very, very lucky in the timing, meaning that you say you
21 hit that point in -- you know, if the use is in May, you
22 hit that point in April. Oh, how fortunate for us all.

1 That timing rarely works out so beautifully that you can
2 do that.

3 But it has happened that we have issued -- and
4 we didn't plan on it that way. But either the company or
5 we recognized that it was feasible and therefore we did
6 it. But it's pretty unusual and it's largely because of
7 the timing aspects. The moon and the stars don't line up
8 like that.

9 MR. KEIGWIN: And remember what we're talking
10 about here is a process for expediting more EUPs through
11 the process. You know, certainly for that scenario,
12 Steve, that you just mentioned, I mean, we have done that
13 before. These are the ones -- you know, FIFRA calls for
14 a 50 day turnaround time on an EUP. And we think that
15 for a lot of the things that meet these criteria we could
16 get closer to that 50 day type of expedited turnaround as
17 opposed to the 12, 15 or 18 month turnarounds for some of
18 the EUPs that might fit the scenario.

19 DR. BALLING: And presumably you could also look
20 at the opportunity -- as a user at the opportunity of
21 well, we've got this compound that is --

22 MR. KEIGWIN: Far enough along.

1 DR. BALLING: -- 65 percent through the system.
2 Maybe we can get the EUP on it this year, because we're
3 not going to get the new registration this year, but at
4 least we can try it out on a commercial level. And
5 that's what's so critically important about these EUPs.

6 MS. MULKEY: Phil, I think you were next?

7 MR. BENEDICT: Yeah. USGS numbers uses digit
8 numbers to signify the size of the watersheds.

9 MR. KEIGWIN: Yeah. These are the eight digit.

10 MR. BENEDICT: I was wondering where you were.
11 Okay, eight digits. If you just tell people that, it
12 would make it a lot easier in figuring out what's going
13 on.

14 MR. KEIGWIN: Okay.

15 MS. MULKEY: And I think Larry was next and then
16 Dan. I may have that wrong.

17 MR. ELWORTH: Well, one thing that I would want
18 to emphasize in this is that -- and I know this is
19 unintentional. But this is the rationale behind the
20 grower community asking for the agency to look at EUPs.
21 It's not because the growers are interested in more
22 flexibility or want to use chemicals more frequently.

1 But given all the pressures on growers and not
2 just regulatory pressures, and given the nature of the
3 chemistry that is out there, which isn't broad spectrum
4 but very specific chemistry, there is an incontrovertible
5 need to learn how to use these chemicals before they're
6 actually applied on a wide scale in the field. And
7 without that, it's virtually impossible to make some of
8 the changes that growers have to make, again whether it's
9 because of biological reasons or regulatory reasons.

10 So whatever the agency does to deal with that
11 problem, whether it's this solution or other solutions in
12 the EUP program -- and that's not the only solution --
13 the growers and the people that work with them need time
14 to get experience with these chemicals before they take
15 them to wide scale. Or they simply -- number one, they
16 won't be alternatives. Two, they won't be able to be
17 incorporated.

18 And it's going to take three to five years to
19 get these chemicals to go from beginning to becoming
20 acquainted to them to actually be able to use them
21 effectively in the field, especially since we're talking
22 about chemicals in many cases that have a very limited

1 spectrum and maybe even a limited spectrum for a limited
2 time during the year.

3 So that -- I think that's the underlying need
4 here irrespective of -- this isn't a regulatory relief
5 proposal.

6 MR. KEIGWIN: Right.

7 MR. ELWORTH: This is a proposal to give the
8 industry the opportunity to do what they need to do. Two
9 specific issues I wanted to raise on that. One is -- and
10 I know there has been some discussion about this -- the
11 issue of the duration of it. If the agency is interested
12 in minimizing its resources, knowing -- based on what I
13 just said -- that you do need some time to do this,
14 looking at more than a one year duration for this
15 especially if the timing doesn't line up, as Jim was
16 saying, would be, I think, a really useful thing for the
17 agency to think of in terms of its resources. And also
18 given the fact that it takes more -- you don't just take
19 something out in the field. You look at it for a year
20 and go ding, you know, we're going to use.

21 The other issue that you didn't talk much about,
22 Rick, is how this will fit into the priorities set in

1 with the agency.

2 MR. KEIGWIN: Yeah, I'm sorry. We think we
3 could handle these without the registrant utilizing a
4 priority. So the priorities are really there in order to
5 help us structure science resources in large part, and we
6 believe that most of these we could handle within RD
7 without significant scientific input.

8 MR. ELWORTH: What about the duration issue?

9 MR. KEIGWIN: Yeah. I think we could -- I think
10 that's something that we could definitely work with.

11 MS. MULKEY: Larry, do you think the only one
12 year might deter people from either seeking EUPs or using
13 them?

14 MR. ELWORTH: I don't know if it deters. I
15 guess it wouldn't so much be deterring as it wouldn't be
16 a sufficient incentive. I mean, some others may have
17 some ideas on that. Dan may have some ideas on that.
18 But the issue is not so much it would deter. Just
19 whether it would be worth your while.

20 MS. MULKEY: Dan?

21 MR. BOTTS: I would like to echo my support for
22 both Steve and Larry's comments and build on them just a

1 little bit. First of all, I would like to thank the
2 agency for taking a concern of the grower community to
3 heart and actually looking at a system that we think
4 needs to be looked at in some more detail.

5 And having said that, as a first cut I
6 appreciate the opportunity to look at this. One of the
7 things that I would suggest in this process -- and the
8 priority system having been set up the way it was, even
9 preexisting to FQPA, probably is the major reason for
10 EUPs falling out of favor, recognizing the resource
11 driven issue at the agency and everything else.

12 I would also suggest that in the eyes of the
13 companies that have developed these products there is no
14 such thing as a product that is not the best and
15 brightest for any particular use. And sometimes the
16 priority system from a grower perspective on what needs
17 to be looked at in this type of context might be
18 different from the list of priorities that you would
19 receive from the registrant. And if these are purely
20 designed to go into implement into a transition
21 discussion period or transition issue, which the way I
22 read the priorities up front, where I would suggest that

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1 you need some type of grower level input in the selection
2 process for those products that might subsequently be
3 able to take advantage of this system.

4 And going back to some of the other issues on
5 the size limitations -- acreage limitations -- and some
6 other things, I would also suggest that you need to
7 carefully vet this program with those states who have a
8 second tier regulatory program on state level EUP permits
9 and approvals. Because I know at least in the State of
10 Florida, even if it's got a federal EUP, there has to be
11 an approval process at the state level as well.

12 And rather than do it after the fact, it would
13 probably be a good idea to go ahead and solicit some
14 comments on this proposal, even before you go out with
15 your PR notice or FR notice at the state level.

16 MS. MULKEY: Very helpful. Thank you. Ray?

17 RAY: Thank you. Jay Vroom asked me to sit in
18 for a while while he had a conference call to attend to.
19 I have one question and a couple of comments. You
20 mentioned that the -- well, the proposed use would be
21 limited to 2,000 acres and limited to no more than 10
22 percent of the total available risk cup.

1 Does the 10 percent apply to the use on those
2 2,000 acres, or the anticipated use once it is fully
3 registered?

4 MR. KEIGWIN: Good question.

5 **(Laughter)**

6 MR. KEIGWIN: It's hard to imagine that, you
7 know, a hundred acres, if that's where we ended up with,
8 would represent 10 percent.

9 MR. AIDALA: And it's not a reduced risk.

10 MR. KEIGWIN: And so I'm sure they're talking
11 about 10 percent of --

12 MALE SPEAKER: Potential.

13 MR. KEIGWIN: -- potential U.S. full
14 registrations. So, again, an area that we can work on
15 and better characterize what we're talking about.

16 RAY: Okay. We -- our registration committee of
17 ACPA had a chance to look at this presentation I think a
18 week ago. There is a lot of support for that, and we're
19 quite supportive of the efforts to streamline the EUP
20 process. We think it's an important step in getting on
21 the market sooner with greater confidence some of the
22 replacement products for those being lost either through

1 FQPA concerns or other concerns. We think it's very
2 important that the growers work soon and early in the
3 process with the registrants on the products of interest
4 so that their concerns are taken into account.

5 Of particular importance is planning far enough
6 in advance for the residue data that would be required
7 for approval, and that you've got to plan on at least a
8 year to get that residue data. So we're eager to work
9 with it. I guess the one concern -- the only concern
10 I've heard expressed so far is the restrictions, which I
11 understand the need for, might severely limit the number
12 of uses that would go through such a program.

13 MR. KEIGWIN: One of the things that we've --
14 from informal discussions that we have thought of since
15 we put it together is that what would likely help us sort
16 through amongst them -- you know, we could conceivably be
17 getting a hundred of them in the first year -- is to
18 require that the manufacturers come with a grower as a
19 partner already, so that we know that there is some
20 grower support for any individual one. Which is an idea
21 that we actually got from IR-4, which is that's what they
22 require as they decide how to pursue which residue field

1 trials, crop chemical and crop combinations, so that you
2 have this combination of the registrant support but there
3 is a grower group that also is saying, yeah, this would
4 be a very important thing for us.

5 And I think that that's something that we want
6 to incorporate in the ultimate proposal that we make.

7 MS. MULKEY: We'll call on you guys, but I was
8 going to ask a question related to this. Dan mentioned
9 encouraging us to involve grower perspective. Ray
10 mentioned encouraging growers to work with registrants.

11 My question, I guess, to Dan is, is there a
12 practical workable way for growers to engage directly
13 with the agency, or is the agency a tool that could be
14 used to facilitate the interaction between growers and
15 registrants, or is this in fact -- is Ray's envision of
16 this, which is basically that collaboration needs to
17 occur, registrant to growers, really the more realistic
18 model?

19 MR. BOTTS: An easy question to answer. All of
20 the above.

21 **(Laughter)**

22 Just from my perspective and looking at it from

1 an organized program where we have attempted to have this
2 level of conversation with individual registrants, even
3 in the numbered compound stage, or even sometimes even
4 pre-numbered compound stage, on products that are in
5 development in pushing for our member-growers to get
6 better communication about what's coming down the
7 pipeline, so that we can push to move things up in the
8 registration process, which is probably the same type of
9 philosophy.

10 There is no easy, simple way to get that level
11 of involvement on an individual commodity group basis.
12 And I would suggest probably that there is no more than
13 four or five organizations in the country that have
14 attempted to formalize this process to the level that we
15 have in Florida. Because we have actually put together a
16 schedule that we try to work with with what we call the
17 basic research companies on at least an every 18 month
18 cycle, meeting with every one of them to see what they've
19 got moving down their process.

20 We're actively engaged with IR-4 to ensure that
21 the priorities that our growers have established are
22 involved in their system. IR-4's food use priority

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1 system setting probably comes as close as anything to
2 fitting a model. But I have a problem with how that
3 process works, because it's geared more toward the
4 extension level participation and the research level at
5 the university system rather than direct grower
6 participation at that level.

7 And right now there is not a single sight that
8 that type of level of interaction could take place. And
9 what I was encouraging a minute ago was maybe using this
10 system and letting EPA serve as a facilitator as
11 registrants come together. I mean, we do it on an
12 individual registrant basis from the Florida fruit and
13 vegetable perspective. I don't know that we could do
14 that with all the registrants sitting around the table,
15 for the very same reasons that they get into anti-trust
16 conversations and other things when you start talking
17 about regulatory impacts on other compounds that go
18 across multiple registrants.

19 So it almost has to be on an individual
20 registrant basis. But somehow that needs to be
21 facilitated, or communication needs to be picked up to
22 ensure that same knowledge base is out there across the

1 grower community. And that's not happening now.

2 DR. LYNCH: Yeah. I was going to say that I
3 also think that the EUP program and the expansion of it
4 -- and I really like the way you've laid out the -- you
5 know, the criteria and prioritization, etc. And it has
6 been really extremely useful in the efforts that I'm
7 aware of where focus has been on transition strategies.
8 You know, articulation of priorities of particular
9 chemicals, high risk chemicals, that need to be removed
10 from a system. The EUP process was incredibly important
11 in being able to target the alternatives and figuring out
12 how that they could be incorporated more rapidly in.

13 A question that I sort of have for perhaps Al,
14 in thinking about the transitions that the USDA has been
15 involved in, etc., I mean isn't that a way to help begin
16 to bring together perhaps the registrants? I mean, we
17 know that we've worked really very well with the land
18 grant university system in order to get those people to
19 be doing their on-farm research and get directly engaging
20 farmers, you know, in that experimentation on their farm
21 fields. You know, using their equipment. How does it
22 all fit into their system.

1 You know, is there not a way to, you know, try
2 to use that mechanism to more effectively create that
3 communication with the grower community? And perhaps
4 Steve and Dan would have some, you know, comment about
5 that as well.

6 MR. JENNINGS: Well, I do think the strategic
7 plans reflect grower-driven priorities for new products
8 and alternative products. The problem right now is those
9 exist for only a handful of crops. My hope is we can get
10 them expanded. So I think it is a natural where they
11 exist and where they don't exist, and I think we have to
12 have some alternatives. The ones that are discussed here
13 sound good to me. IR-4 -- again, while we all have
14 concerns about how that priority system works, it
15 probably comes as close as anything to reflecting grower
16 needs right now.

17 So we would hope to use a variety of mechanisms,
18 and we would hope to get the additional strategic plans
19 in place over the year.

20 JIM JONES: Just to comment, I think, you know,
21 Sarah, that the last EUP we granted in the scenario that
22 Steve was talking about, where we were 75 percent done

1 and the timing just all lined up, was pymetrozine
2 potatoes, the one you were working on in Wisconsin about
3 two years ago. It's just the stars and the moon just
4 don't line up like that all the time, but it did in that
5 situation.

6 **(Laughter)**

7 DR. LYNCH: Well, it certainly did. And if you
8 look at the adoption state wide of those alternative risk
9 -- reduced risk products, Wisconsin stands out far -- you
10 know, far in front of all other, you know, potato
11 producing states for that very reason, because they have
12 a very -- all the stars lined up, perhaps. But in
13 addition, there was this mechanism for figuring out how
14 to really integrate it into the existing farming systems
15 and to get, you know, grower adoption and confidence in
16 using that product.

17 So maybe we all need to get into astrology or
18 something like that.

19 **(Laughter)**

20 MR. ELWORTH: I want to talk about non-ag EUPs,
21 so, Ray, if you want to -- I assume you don't want to
22 talk about non-ag.

1 **(Laughter)**

2 RAY: I'm not avoiding it. I just don't have
3 anything to say about it.

4 MS. MULKEY: So your suggestion is that we defer
5 to Larry and Ray. But let's be sure we save some time.
6 I think it was Larry and Ray, then. I assume Larry wants
7 to talk about ag, too.

8 MR. ELWORTH: With all due respect to your
9 wonderful products. Sarah mentioned the test management
10 strategic plans, and actually this issue came up pretty
11 much early and often in all of those discussions. And it
12 was actually -- the first I had heard about it was from
13 the apple industry from researchers that I had worked
14 with for, you know, 15 or 20 years. And they were
15 universal in their concerns about this.

16 And I guess having said that, my observation
17 would be -- I think this is a great first step. My
18 observation would be that the big fish in this pond is
19 the new AI's. And this really truly does go -- doesn't
20 resolve that problem, and that's where not only obviously
21 the markets are, but it's also where the larger gains are
22 in terms of growers being able to change their practices.

1 And so I don't want to minimize how important
2 this step is, but that's -- in terms of meeting the need,
3 it doesn't go far enough. And I'm not sure that
4 regulatory programs are the only way to meet that need.

5 RAY: Yeah. While my charter, ACPA, can't
6 advocate for any specific product used, because we
7 represent all of the companies who are amongst themselves
8 competitors, I think we can play a role in facilitating
9 the interaction that Dan is talking about. And we would
10 be happy to work with the agencies, including the IR-4
11 program, to find a way for all of the grower groups to
12 get together on a regular or as needed basis with the
13 individual registrants in order to make sure that these -
14 - their concerns and priorities are considered.

15 MS. MULKEY: I could offer you -- you might not
16 want to refuse, Dan. I don't know. Okay.

17 MR. BOTTS: I appreciate the bone thrown here to
18 residential use.

19 **(Laughter)**

20 Most residential uses will not be eligible.
21 Rick, you and I have a little bit of history on trying to
22 get an EUP on sort of a non-ag basis for which there is

1 really no template within the regulation. And I know you
2 probably haven't discussed this much. Could you say a
3 little bit more about what you wrote here, and then I
4 have some other questions.

5 MR. KEIGWIN: I guess I have two comments. One
6 is the main reason why that most -- or mostly no
7 residential uses were in there was so that we wouldn't
8 have to revisit our residential exposure assessment that
9 we had previously done. Obviously there are some types
10 of low, no exposure residential use scenarios that
11 potentially could come in. I'm thinking immediately of
12 like a below ground termite bait station, for example,
13 that likely could come in under the scenario.

14 Now I believe RISE is also interested in
15 exploring ways to pursue additional or some type of -- a
16 new type of forum for sort of the residential non-ag type
17 EUPs. And I'm not sure how far along RISE is.

18 MR. BOTTS: Well, I'm not familiar with their
19 work.

20 MR. KEIGWIN: Yeah. I know they've been
21 interested in pursuing this concept.

22 MR. BOTTS: Well, I would encourage the agency

1 to think fairly strongly about this. And one of the
2 things that I would certainly appreciate is some sort of
3 translation of acreage into, you know, households or
4 other sites -- non-ag sites -- so we can get a sense of
5 an ability to actually either have a R&D exemption or an
6 EUP.

7 And the other point I want to make about this --
8 and why I would encourage you to do this -- is similar to
9 the idea of why somebody has -- an environmentalist may
10 want a hunting season on an animal. And that is,
11 sometimes you want -- it's in the agency's best interest
12 not to avoid the issue, but to actually set some sort of
13 priority or some sort of scheme for non-ag EUPs, because
14 the work kind of happens anyway on some levels of some
15 different things.

16 And so there is a sort of sub-radar kind of
17 activity, and you guys may want to have that become more
18 above board. And that's if you have an ability to
19 actually have registrants get R&D exemptions or EUPs.

20 MS. MULKEY: Is your concern primarily with
21 products where the active ingredient is also a food use,
22 or are you -- do you think there are a lot of issues in

1 this area for products where the active ingredient is not
2 also a food use?

3 MR. BOTTS: We have both. But in our particular
4 instance, we -- there are certainly non-food actives like
5 in the antimicrobial area.

6 MS. MULKEY: Because that might be tackled in a
7 different way, because it doesn't -- not that it doesn't
8 matter what the aggregate exposure is. But it doesn't
9 trigger --

10 MR. BOTTS: It makes it easier.

11 MS. MULKEY: -- an infinity FQPA analysis.

12 MR. BOTTS: Right.

13 MS. MULKEY: So maybe we could look into a first
14 cut at thinking about where the active is not a food use.

15 MALE SPEAKER: And that would go a long way for
16 a lot of products.

17 MS. MULKEY: Okay. By my count we have five
18 more minutes, if we're going to stay on -- and we have
19 two tent cards, so we're looking good.

20 J.J.?

21 DR. STEINBERG: Wearing my scientist researcher
22 hat, I have to say that this program is potentially

1 exciting. It's not a common word, I guess, one would use
2 in regulations. But as you well know, when the good Hal
3 Varmis came to the NIH and when the good David Kessler
4 was at FDA, they had a crushing need for new drugs and
5 compounds in the pipelines, certainly as it related to
6 age drugs.

7 A program like this could be a major catalyst to
8 get new compounds in the pipeline. And I think if that
9 aspect is underscored, I think again that could be very
10 exciting. The key to success in the NIH and FDA's
11 approach in getting those drugs in the pipeline, which
12 we, the American people and the world are now reaping the
13 benefits of dozens of new drugs in this area, was really
14 an expedited review where time was of the essence in
15 getting these things through. The NIH and FDA has shown
16 wonderful charts how time to get these things to this
17 pilot project approval dropped. And that was a major
18 catalyst for all the companies to come across on.

19 Also, I have to admit as a researcher, the size
20 of the application was critically important. Obviously
21 you have to make sure that there is a do no harm mode.
22 And again, here I think using experimental agricultural

1 labs in universities, the EPA has wonderful sites to
2 carry these things out across the country. And I'm sure
3 if private industry came forward and were to ask for
4 other opportunities to use land or property set aside --
5 you know, one of the largest land owners in the United
6 States is the Department of Defense. I'm sure they would
7 be happy to loan a few acres for these things, also.

8 So I think a lot of novel thinking can come
9 across as it relates to this. The SAP may have a view.
10 So I think that's kind of the catalytic view that I would
11 look at this program.

12 So I end by saying that this could be an
13 exciting program to really push forward a lot of new
14 novel products and to let the community know that this
15 exists and could really be a boon in replacing a lot of
16 old products and getting the next generation out there.

17 MS. MULKEY: Thanks. Ray, we'll let you have
18 the last word for today.

19 RAY: I just did. I'm done.

20 MS. MULKEY: Oh, I see. All right. Well, thank
21 you. We end then on this visionary note, and that's
22 okay, too. We are scheduled for a break now, and we will

1 take it. We are scheduled for a ten minute break. Now
2 you folks are impossible to do this with, I have learned.
3 But you really need to honor that.

4 There is an AT&T cell phone in the Washington
5 room, if anybody has lost your phone.

6 MALE SPEAKER: Oh.

7 MS. MULKEY: And if any of the members of the
8 public scheduled for public comment at 4:30 are heavily
9 burdened by the timing on that, if you could let Margie
10 know during this break, and we will see if we can work
11 out something so that you don't have to wait until then.

12 Thank you.

13 MS. FEHRENBACH: You can just sign up outside at
14 the desk. There is a sign up sheet they can sign up.

15 MS. MULKEY: Nobody has signed up yet for the
16 4:30?

17 MS. FEHRENBACH: No.

18 MS. MULKEY: So if any of you were deterred by
19 that timing, I guess is what we're saying. And please,
20 ten minutes only. That means you can't hold a half hour
21 meeting.

22 **(Whereupon, a brief recess was**

1 **taken.)**

2 MS. MULKEY: Those of you who are here are just
3 toting up a lot of brownie points in my book, I'll tell
4 you that.

5 **(Laughter)**

6 MALE SPEAKER: They're all on their cell phones.

7 MS. MULKEY: Oh, I know. Well, the next item on
8 the agenda is the rodenticide stakeholder work group
9 presentation. And this includes basically a presentation
10 of the work of one of our work groups that has been
11 active. That is, our -- the PPDC's work group that has
12 been active for quite some time.

13 And rodenticides do present -- for those of you
14 who are not closely attuned to, they do present some very
15 special challenges in terms of regulatory decision
16 making. And the obvious is not always as workable as you
17 would think. I mean, one of my favorite stories about
18 the obvious is these bittering agents which seemed like a
19 good idea. The baby would go bluu, you know, and the
20 problem was solved. And of course the problem, like many
21 others in what we do, turned out to be far more complex
22 than that. And maybe among other things rodents go bluu.

1 **(Laughter)**

2 And that's my grossly over simplified version in
3 an effort to stall here to try to get some people in
4 their seats.

5 **(Laughter)**

6 Of the kind of work that this work group has
7 done, which is in fact very sophisticated and not that
8 kind of simplistic -- although it seems simple once
9 they've done their work. Some of the issues seem simpler
10 than, you know, when they first embarked on tackling
11 them. So it's been a lot of work. It's been a lot of
12 good work. And it has matured to a near conclusion,
13 right? Is that fair?

14 Those of you -- the PPDC has always been
15 troubled about what does it mean to embrace the work of a
16 work group. And there has been some struggle with am I
17 saying I agree with everything. Am I saying that I
18 endorse every statement they make. I think we concluded
19 the last time we struggled with this issue that the right
20 way to think about -- the work group exists as a legal
21 entity, and we are a legal entity -- the PPDC. As a
22 legal entity only because of the advisory committee.

1 It is not its own separate independent advisory
2 committee. So it brings its advice to the agency through
3 the PPDC. But the PPDC doesn't have to operate by
4 consensus. In fact, neither does the work group. So the
5 advice can come to the agency without your embracing it
6 at all. What you do need to do is to decide that it is
7 appropriate to have the advice go to the agency.

8 You may want the advice to go to the agency
9 unedited by you. You may want the advice to go to the
10 agency with some caveat, like frankly I don't
11 individually have an opinion on whether the agency should
12 accept the advice. You may want it to go to the agency
13 saying we think the agency should receive this advice
14 because they did a bunch of work.

15 But frankly we're not persuaded that the agency
16 should take the advice. That's okay, too. Or even we
17 individually as PPDC members, or even collectively,
18 recommend the agency not embrace this advice. You do not
19 have to agree with the advice in order to basically make
20 it. Use yourselves as a conduit for the advice to be
21 received by the agency as an advisory committee.

22 So let's be sure we understand that dynamic.

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1 This doesn't mean that we want you to just rubber stamp
2 the receipt by the agency of work group advice without
3 engaging on it. We welcome your engaging on it. But
4 it's okay not to.

5 All right. I think maybe now we are ready for
6 the presentation, and they've built some time in for
7 group discussion as well. Take it away.

8 MR. MCDAVIT: Okay, thank you. My name is Mike
9 McDavit. I'm with the Special Review and Re-registration
10 Division from OPP, and I had the pleasure of being
11 involved with this group from its beginning to what
12 appears today to be its closure. But I'm not going to be
13 doing most of the talking. We're going to let some of
14 the stakeholders speak to you about what the group did
15 and what some of the recommendations are.

16 And before I do that, though, I want to just lay
17 the stage -- the groundwork a bit more so that you have
18 some context. I think for many of you this is not a new
19 issue, but for some of you it might be. So real quickly
20 just a bit of background.

21 In 1998 the agency issued two rodenticide REDs,
22 one of which covered six active ingredients which were

1 primarily anticoagulant rodenticides. And there was
2 another RED issued on zinc phosphide. In both of these
3 documents we outlined a concern we had discovered by
4 consulting with the data from the AAPCC, which is the
5 American Association of Poison Control Centers. It is
6 basically the poison control center data that is
7 collected.

8 And what we saw was a disproportionate number of
9 exposure incidents involving young children in the home.
10 And we were concerned about that and felt we needed to
11 address it in the REDs. And so we took a two prong
12 approach in both of these documents.

13 The first part was to have some immediate
14 effect. It was to require the reformulation of products
15 to include a bittering agent, which Marcia just eluded
16 to, as well as a staining agent or an indicator dye into
17 all formulated products that were sold in the home. That
18 was phase one, and that was envisioned as kind of a short
19 term step.

20 The second part was to convene a stakeholder
21 process of some type. It wasn't specified in the RED.
22 But some type of stakeholder process where all of the

1 issues could be fully vetted and discussed across
2 multiples of concerns here. And so that's where the
3 rodenticide stakeholder work group comes into being.

4 We approached the PPDC also in 1998 seeking your
5 support for forming a subcommittee, and we asked for your
6 participants and any other recommendations on who should
7 be on such a group. Bob Rosenberg was a member of the
8 PPDC who also served on the rodenticide stakeholder work
9 group. But most of the membership came from other
10 efforts that we undertook to get a balanced group.

11 We convened the group. We had its first meeting
12 in March of '99 and it included 26 members. Lois Rossi
13 was the chair, and she would be here today if it weren't
14 for some other pressing matters in the office. So her
15 apologies for not being here, and so you get me instead.
16 And then in July of '99, sort of an interim report or a
17 recommendation was made to the PPDC.

18 And that recommendation was to basically take a
19 fresh look at the labeling and try to devise labeling
20 statements that would preclude exposure cases involving
21 young kids. And Eileen Moyer, who is with Reckit Van
22 Keyser, will be speaking about that in a few minutes.

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1 But that particular recommendation was endorsed by this
2 body, and so the agency started working on it with the
3 rodenticide community -- registrant community. And
4 again, she'll speak to that.

5 And one of the things that also came up then was
6 -- it was Marcia's suggestion that basically created the
7 expectation that when this group was finished, we would
8 have a full report. And that's now available, and that
9 indeed is how we concluded the work of this group.

10 As far as today goes, I'm going to put the mike
11 down in a second and hand it over to Rose Ann Soloway of
12 the American Association of Poison Control Centers. She
13 is the Associate Director and she was an active member on
14 the stakeholder work group. And she's going to discuss
15 the findings and recommendations of the work group.

16 And then when she concludes -- and I think it's
17 approximately a ten minute or so presentation. Then
18 Michael Nieves of our office, the Special Review and
19 Re-registration Division, who is now the Chemical Review
20 Manager for all of these particular active ingredients,
21 will introduce the next speaker, which is Eileen Moyer,
22 the Director of Regulatory Relations at Reckit Van

1 Keyser, which is the maker of the decon products in case
2 you don't know the name Reckit Van Keyser, which I think
3 is kind of a disguised name.

4 But she'll be speaking specifically about the
5 status of that effort to improve the labeling. This has
6 been a joint effort between EPA and the Rodenticide
7 Registrants Task Force to vamp up those labels. So with
8 that, I'll turn the show over to Rose Ann Soloway, and
9 I'm going to flip charts up here.

10 MS. SOLOWAY: Thank you, and good morning. It's
11 an honor to present the work of such a diverse group, and
12 I thank Mike for agreeing to flip charts so that I don't
13 have to stand up right in the middle of the screen and
14 get in your way.

15 This work group was convened to assist EPA to
16 address potential problems related specifically to
17 children's access to rodenticides in the home setting.
18 So while there are many uses for rodenticides, the focus
19 of this work group was very specifically children and
20 very specifically the home setting.

21 The members of the group included not only
22 federal agencies and bureaus, but also representatives of

1 the general public, representatives of the medical
2 community, public interest groups, as well as industry,
3 and chaired, as Mike said, by Lois Rossi. We met five
4 times. Went on a field trip. Had a number of invited
5 presentations, as well as public comment, both orally and
6 in writing, and a great deal of very polite, but very
7 vigorous discussion.

8 As part of the groundwork, we were asked by EPA
9 to keep in mind several things as our deliberations
10 proceeded. First of all, the number of times that
11 children gained access to rodenticides in a home setting,
12 and almost by definition, gaining such access would be
13 under inappropriate circumstances.

14 Secondly, to focus not only on potential
15 toxicity or perceived risks of pesticides, but also -- of
16 rodenticides specifically, excuse me. But also on the
17 public health benefits of rodent control, including the
18 use of rodenticides.

19 We needed to consider the fact that solutions --
20 potential solutions -- should not substitute one
21 potential human health hazard for another, that few
22 actions are without costs, both monetary -- actual

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1 monetary costs as well as costs in resources, and that
2 the equity of those costs and regulatory burdens needed
3 to be considered. And finally that any potential
4 solutions recommended had to be economical and efficient.
5 That is, not just a possible solution, but a feasible
6 solution.

7 We embarked on several meetings' worth of fact
8 finding. And I'm not going to identify them all at this
9 moment, because I will say a few words about each of the
10 items you see on the list in front of you. I'll simply
11 say that we did this by means of presentations by agency
12 personnel, work group members, as well as invited guests
13 from other federal agencies, as well as other outside
14 groups.

15 The first of these issues was data sources. EPA
16 came to us with a great deal of information from the
17 toxic exposure surveillance system of the American
18 Association of Poison Control Centers. But about
19 immediately the group wanted to find what other sources
20 of data might be available and might be relevant to the
21 issue at hand. And so over a period of our meetings,
22 information from other federal sources and other state

1 sources were gathered.

2 Now there is a great deal of information to look
3 at here. The information came from desperate sources
4 with desperate findings. And I will assure you that
5 there was a great deal of discussion about data, about
6 the sources, about what the data meant and about how the
7 data were interpreted. There was a pretty general
8 agreement that little, if any, of the data actually
9 characterized the circumstances surrounding children's
10 access to rodenticides.

11 But there was agreement on two issues. Number
12 one, a large number of children -- we're talking about in
13 the tens of thousands over a period of service years --
14 came into contact or presumed contact with rodenticides
15 in the home setting. Given that, this situation could
16 only occur if the product placements were made in a
17 manner which directly violated label instructions about
18 safe use, for placement of dates and any instructions
19 about keeping out of the reach of children. Because
20 whatever else was happening, these were not out of the
21 reach of children.

22 But regardless of individual thoughts about the

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1 use of chemical rodenticides, there was certainly an
2 agreement that there were significant public health
3 benefits to controlling rodent populations. First of
4 all, protecting the public health. We heard information
5 from CDC about 20 different rodent borne diseases that
6 are found in the United States. And some of those
7 diseases are fatal. For example, in one report period
8 outlined by CDC, 45 percent of victims of hanta virus
9 died.

10 We learned that rodent borne diseases can be
11 transmitted in a number of ways. First of all, directly
12 by bites. Secondly, by rodent contamination of food,
13 water and residential areas. And thirdly, by other
14 critters that bit the rodents and then bit humans and
15 passed on rodent diseases that way. Rodent borne
16 diseases that way. So that was one issue.

17 Another is actually protecting food supply.
18 Since rodents eat, they'll eat food wherever they can
19 find it, and if what they find is bulk food supply,
20 they're happy with that. And finally, to prevent
21 property damage. We heard and saw some dramatic
22 information about what happens to residential structures

1 -- and other structures. But we're focusing on
2 residences.

3 What happens to residential structures when
4 rodents are given unfettered access. They can bring a
5 building down. They'll chew through wood. They'll chew
6 through all kinds of structural building materials. In
7 their search for water, they will chew through water
8 pipes, which not only affects the water supply, but
9 causes floods. And one of the frightening -- and I think
10 for many people very surprising -- things was how they
11 will chew through electrical wires and cause fires as a
12 result.

13 We then got to the issue of chemical rodent
14 control, since that, after all, is why we were there, and
15 considered information about the properties and the
16 toxicity of six currently used anticoagulant
17 rodenticides, as well as zinc phosphide. Since we're not
18 here to talk specifically about toxicity, I'll leave that
19 for now unless anyone has questions later.

20 But I want to compliment that discussion about
21 chemical rodent control by mentioning issues related to
22 nonchemical residential rodent control. Integrated pest

1 management is an issue that was brought up by a number of
2 constituencies around the table, certainly
3 representatives of the public communities as well as
4 medical -- people with medical concerns and the industry.
5 And it certainly was agreed that integrated pest
6 management is an important consideration when discussing
7 rodent control in general. It's impossible to discuss
8 rodent control without at the very least talking about
9 sanitation and waste management.

10 But a couple of other issues were raised.
11 Number one, nonchemical means are not going to be
12 effective if there is some reason for rapidly decreasing
13 a rodent population. If there is some need to rapidly
14 decrease rodent population, then nonchemical means are
15 probably not going to do it. And one instance of that
16 might be an acute public health hazard.

17 Secondly, it was noted that while a number of
18 nonchemical rodent control methods are available, they
19 may not have toxicities, but they may in fact present
20 other hazards. A kid who comes on a rodent caught in a
21 snap trap has access to that rodent and potentially
22 rodent borne diseases. If rodents accumulate in a multi

1 critter trap that, again, is not removed immediately,
2 then there is access to children. And quite frankly, you
3 know, I have taken calls at the poison center from people
4 who are bitten by rodents who were stuck to a glue trap.
5 Kids can get their fingers stuck in a snap trap and have
6 finger trauma as a result.

7 A number of potential risk management strategies
8 were discussed, and I'll talk about each of these briefly
9 before getting to our recommendations to this group.
10 First of all, there was some discussion about making
11 these rodenticides restricted use versus general use.
12 And there didn't seem to be much support for that
13 possibility for a couple of reasons, one of which
14 restricted use means exactly that. And so people who
15 need access to rodenticides and are not in a position
16 financially or otherwise to use the services of a
17 professional pest control applicator automatically are
18 disadvantaged. And secondly, the toxicology profile
19 simply didn't seem to indicate a need for restricted use
20 for these substances in general.

21 Bittering agents. Bittering agents are
22 voluntarily used by some manufacturers in their products.

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1 However, we also heard some testimony that mammals,
2 including rats, certainly have strong reactions to
3 available bittering agents, and that the required use of
4 bittering agents in rodenticides could have the undesired
5 effect of making them unpalatable to the rats and mice in
6 question.

7 Tamper resistant bait stations. On the surface,
8 that seems like it would be an excellent idea. There are
9 a number of practical considerations. One is that they
10 are more expensive. Another is that they are larger, so
11 they are harder to display. They're harder to market.
12 They have been less readily purchased and accepted by
13 consumers in past situations where they have been
14 marketed to consumers. And there are a number of other
15 technical issues as well. But the bottom line is, with
16 the information currently available it makes them more
17 expensive, less available and less attractive to
18 consumers.

19 Indicator dyes. Again, at first blush that
20 seems like a simple thing. If we don't know if a child
21 with an open packet of rodenticide actually ate some or
22 not, if there was some dye in that packet that told us

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1 yes or no, that at least would start weeding out the
2 non-ingestions from the actual ingestions. It doesn't
3 address the issue of the youngster got a hold of it
4 anyway, but at least from a medical point of view it
5 would seem that would make it easier.

6 But the bottom line after all of our discussion
7 was that right now there are no currently suitable dyes
8 available for this purpose. So it doesn't mean it's a
9 bad idea. It just means that right now it's not even a
10 feasible alternative.

11 There was discussion of reformulating delivery
12 forms and repackaging amounts of pesticides available for
13 home use. Let me talk about forms for a minute. There
14 was discussion of actually embedding the pesticide
15 product in something like paraffin, which meant it
16 wouldn't be scattered. You would have bite marks. If a
17 child got into it, you could guess amounts.

18 There was discussion about reformulating them
19 into some sort of a hard pellet that would be more
20 difficult for children to get into. But in one case we
21 ran into the issue of decreased acceptance by the rodents
22 in question. In the case of something that would be

1 harder for a child to chew on, it would also be harder
2 for a rodent to chew on. And the bottom line is, rats
3 have plenty to eat, and if we want them to eat rodent
4 bait, we've got to make it maximally acceptable to them.
5 We want them to eat rodent bait rather than our houses.

6 In terms of limiting amounts available, many
7 people thought that that was feasible and in fact would
8 be consistent with recommendations that homeowners check
9 product placements regularly anyway to see if the product
10 has been disturbed. To see if there are rodents actually
11 eating the bait.

12 And then finally consumer education. First of
13 all, we all accept that education is a good thing and
14 that there are multiple potential means of providing
15 educational messages to consumers. But one message that
16 came through loud and clear to this group is that the
17 best time to teach someone something is at the point
18 where they need the information.

19 And without getting into all of the discussion
20 that led to that point, to the stakeholder work group it
21 seemed clear that in terms of homeowners using
22 pesticides, the best way for them to get that information

1 is right there on the label of the product that they're
2 buying. And that led to the earlier interim report that
3 this group received and the report that will follow mine.

4 Finally, recommendations. First of all, labels
5 are the immediate targeted source of information for
6 consumers, and so labels should provide better
7 information about how to place products safely and
8 protect children. Next, that outreach education efforts
9 can and should be adjuncts to existing programs involving
10 products and labelling.

11 Having said that, it is a recommendation that
12 EPA in partnership with a number of partners develop a
13 web site with basic information on rodent control, which
14 of course could include many means of rodent control
15 other than chemical rodenticides, as well as the safe use
16 of rodenticides.

17 Next, the EPA should not now require the use of
18 indicator dyes or bittering agents in rodent baits, but
19 that industry should have the option of including these
20 agents on a voluntary basis and that industry should be
21 encouraged to continue research into innovative
22 strategies.

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1 Next, EPA should support registrant activities
2 to evaluate the feasibility of reducing the maximum
3 amount of rodenticide bait per placement. And finally,
4 that EPA should cooperate with industry and other
5 agencies to better understand the causes of rodenticide
6 exposures in children. The group felt that more research
7 is needed for two reasons. Number one, we need to better
8 understand the circumstances that characterize children's
9 exposures to rodenticides, and that number two, without
10 that kind of information, it in fact would be impossible
11 to evaluate the effects of any strategies put into place
12 to reduce those exposures.

13 Thank you.

14 MR. NIEVES: Good morning. Can you hear me? My
15 name is Michael Nieves. No, I am not Eileen Moyer. I'm
16 the new Chemical Review Manager for the rodenticide
17 chemicals. Dennis Diesel sitting back there used to be
18 the Chemical Review Manager. He works now out of the
19 front office of OPPTS. So if you have any hard
20 questions, feel free to ask him.

21 With that said, Eileen Moyer is going to give a
22 presentation on the labelling improvements for these

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1 rodenticide products. Before she starts, however, I want
2 to stress that this is an ongoing process and at this
3 point we haven't finalized anything. It's been a while
4 since the agency has met with rodenticide manufacturers,
5 and based on the phone calls and the e-mails that I've
6 been receiving, I sense there is a bit of urgency on the
7 part of the industry to get this process back into high
8 gear.

9 So I want to announce that before the week is
10 up, I will be sending out e-mails and calling the RRTF
11 members to let them know that right after the holiday
12 season there will be a meeting and we can look forward to
13 working on this and trying to finalize this process.

14 With that said, I will move back and help
15 Eileen. Thanks.

16 MS. MOYER: Thanks, Michael. Okay. I passed
17 around a sample label that was given to the RSW last
18 year. This was not the only sample label. Other
19 manufacturers provided examples of how they could take
20 their current labels at the time and improve them, work
21 with the agency to find new ways to present the
22 information and make the information clearer.

1 The other thing I want to do before I move on is
2 to just mention the RRTF, which is the Rodenticide
3 Registrants Task Force, which is an industry joint
4 venture that represents either directly or indirectly
5 over 90 percent of the rodenticide products that are on
6 the market. And the RRTF has been working very closely
7 with the agency to find ways for label improvement.

8 As Rose Ann said, when you look at the incidents
9 with children, children have gotten hold of the product
10 in one way or another. And whether they've actually
11 eaten the product or not eaten it, we're not sure. But
12 when a parent finds a child with rodent bait, everybody
13 things rat poison and immediately they call poison
14 control, because they want to find out what's going to
15 happen to their child. So we needed to find a way to get
16 consumers to place these products so they're not within
17 the reach of children.

18 The concept that we worked off of as we worked
19 with the agency really came out of EPA's consumer
20 labelling initiative. And we looked at the initial
21 guidance document that came out of the CLI and that was
22 presented to the registration groups to look at what we

1 could do now. What needs -- what we could do, but may
2 need regulatory changes. But we tried to find ways that
3 we could work right now without having to go through the
4 regulatory process which is a lot more cumbersome and
5 would take a lot longer to see results.

6 If you look at the labels that I have passed
7 out, I have what we're calling our simplified label on
8 the front and what was the current decon label at the
9 time. You may notice the name of the company has
10 changed. But one of the things that -- one of the
11 concepts that came up in CLI was having more white space.
12 And that doesn't necessarily mean the labels have to be
13 white, but really just more space around the labels.

14 If you look at the current decon label, at the
15 time it's a pretty daunting label to read. It's
16 difficult enough to get consumers to read a label. But
17 when you have all this information packed together, small
18 type size, it's even harder and it's harder to get
19 someone to even find the information.

20 If you look at the simplified version, which is
21 the top copy, you'll see that the formatting is very
22 different. We numbered the steps so that people could

1 easily follow what they had to do in order to place a
2 bait. We used bulleting in the storage and disposal
3 area. It's a cleaner looking label and people can find
4 the information a lot easier.

5 We have highlighted the key sections of the
6 label. We centered the headings so you can see the
7 directions for use instead of the heading for directions
8 of use being hidden within all the other text. You now
9 have a bolded heading. It's centered. You know, it has
10 the highlight -- the red highlights so there is a
11 contrast. People can find that information. They can
12 find the statement that says important. Place this
13 product out of the reach of children, pets and other
14 animals. They can find the safety information, first aid
15 information and the environmental hazards.

16 We also worked on simplifying the phrasing that
17 was used. Some of the language that was used on the
18 labels in the past was difficult for some of us to
19 understand, you know, let alone your common consumer.
20 And even in the RED there was a recommendation that a
21 phrase be placed under the environmental hazards that
22 advised consumers not to place the product in intertidal

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1 waters. Well, your consumer isn't going to understand
2 what an intertidal water is. It's better to just say,
3 don't put this near or in water, and put it in language
4 that the consumer knows what you're saying.

5 Since the problem -- as we looked at this, the
6 problem seemed to be that adults were not keeping these
7 products out of the reach of children. They were not
8 being placed properly. We put more emphasis on keep out
9 of the reach of children. We bolded a statement right on
10 the front panel. We enlarged the statement. We bolded
11 it so people could see it clearly on the front panel as
12 they made the purchase. And again, it goes back to the
13 teachable moment, so when someone is even making a
14 selection, they can see the statement.

15 We have a lot of repetition on how -- on keep
16 out of reach of children. Repetition is a good way to
17 learn. So maybe if they don't see it in one place,
18 they'll see it in another. And if you look on the back
19 panel of the simplified label, we have keep out of reach
20 of children boxed in a red section. We have it in the
21 directions for use as the first statement in the second
22 and third steps of the directions for use. We have it

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1 again in storage and disposal.

2 We also have emphasis on read the label first,
3 which was part of the campaign of the consumer labelling
4 initiative. And that is right at the top of the use
5 directions, to read this entire label and follow all use
6 directions and safety information.

7 Basically, this is our simplified label where,
8 as Michael said, we're anxious to move forward on this.
9 And we've been working with the agency to develop a time
10 line. There are a few things that we still need to work
11 out in language and what items might require a regulatory
12 change versus those things we can do right now. But we
13 really would like to move forward as quickly as possible
14 in improving the labels and trying to get this as one
15 means to mitigate unnecessary exposures or even children
16 having the product in their hands.

17 Any questions?

18 MR. MCDAVIT: And that's all I had.

19 MS. MULKEY: That's it. By my count we have
20 about 30 minutes, right, until 11:50. So we have about
21 30 minutes for discussion and comment on issues.

22 MR. BOTTS: Just on the simplified labelling,

1 this was developed using EPA's consumer labelling effort
2 and guidelines. Have you consumer tested this, or taken
3 this label out to people who actually use the product to
4 see whether they can understand it or read it, or whether
5 they understand -- just reading it and looking through
6 it, having tried to read labels from an agricultural
7 situation, it's a lot more straightforward and a lot more
8 good solid information and a lot fewer words than what
9 you typically see on a label.

10 And I just -- have you done any testing on
11 whether this does get the message across to consumers?

12 MS. MOYER: We haven't actually done that work
13 yet, because we're still working on the format and the
14 language that's in the label. But that's something I
15 know that as a manufacturer we would look at the label
16 from that standpoint.

17 MR. BOTTS: Okay. And one follow up. There are
18 things on this simplified label that if you change them
19 would require a regulatory change than what's required on
20 labels now, or is this --

21 MS. MOYER: Some of the language. There is a PR
22 notice. It's 94 dash -- Bill, seven or eight? Seven.

1 That impacts the language that we use on the label. And
2 as you know, PR notices many times are used as a
3 requirement and the states will not allow us to register
4 our products unless we meet the conditions of a PR
5 notice. So there might be some other changes that we
6 would need so that we can get state approvals on the
7 labels as well.

8 So it's one thing for us to work with the agency
9 and get the agreement with the agency on the better
10 label, but there may be some processes we need in order
11 to gain our state registrations. So we need to address
12 that situation as well.

13 MS. MULKEY: J.J.?

14 DR. STEINBERG: You know, this is all great
15 stuff and I love that the label is getting simpler.
16 Unfortunately, I love pictures and I think pictures are
17 really terrific. And I would love to see some place
18 where pictures can be available. I will tell you that in
19 the Bronx if we don't have a working facility with half a
20 dozen different languages, not including English, you
21 know, we would have difficulty with this. And you may
22 need to consider an insert in multiple languages. But

1 pictures I think are really a clue.

2 Regarding the very nice presentation of the RSW,
3 I would also say that I've got to believe in this era
4 that there are a few things -- you know, bait stations.
5 Children under the age of three will eat essentially
6 anything. They're in competition with many other species
7 of animals that will just eat anything that comes their
8 way. And they will find out much later that they don't
9 like it. I've got to believe that we can come up with a
10 very clever, novel bait station to keep kids out.

11 I know Consumers Protection has thought about
12 these things. Also, another good resource to hit, the
13 industry has brilliant engineers. I'm sure they can come
14 up with this and make them look pretty and attractive and
15 cost effective enough that people will buy them. We in
16 the Bronx and in New York are interested in this, of
17 course. We have lost people because of hanta virus. And
18 believe it or not, we have Rocky Mountain Spotted Fever
19 in the Bronx, and we are worried about these emerging
20 infectious diseases. Rodenticides are critical for
21 health.

22 And the last note is that I still believe we're

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1 looking at the tip of the iceberg type stuff. And in the
2 way of getting money for epidemiology, really counting
3 the numbers of how many people and children are involved,
4 I can't underscore this more than enough. I think the
5 American Association of Poison Control Centers needs a
6 couple of extra dollars to do this. If Jerry Blondell is
7 still working dutifully for you at EPA, he is an
8 astoundingly amazing epidemiologist. He needs a dozen
9 people to help him. And I think you need an accurate
10 count, because an accurate count is how you base your
11 risk assessment.

12 This is very important stuff. I'm delighted
13 that PPDC has involved itself in this and the RSW and EPA
14 and the industry have moved forward to make this a better
15 product. We all need it. The consumers of America need
16 it.

17 **(END OF TAPE TWO, SIDE A)**

18 FEMALE SPEAKER: We're a very friendly group
19 here.

20 MS. MULKEY: Yes.

21 FEMALE SPEAKER: I want to just highlight what
22 J.J. said, because when I looked at this, I was thinking,

1 who is this for. The language issues are so important.
2 In the community that I live in -- you know, they say
3 that in the Montgomery County schools, which is just a
4 suburb -- a county near Washington, D.C., you have 120
5 different languages represented at the schools.

6 So first off, that really has to be addressed.
7 It's so important. And then that gets to, you know, a
8 second suggestion that he just made that I was getting at
9 in a more research oriented mode. But I like moving
10 right to pictures. And that is, how do people get this
11 information. And we know already that there are labels
12 on these products and they're not being followed.

13 So has any research been done as to why people
14 aren't following them? Now as a consumer myself, I know
15 a lot of times there are reasons why I don't follow the
16 labels. So I'm imagining that with a product like this
17 that -- have you really -- you know, do we really
18 understand, you know, the reasons why people are not
19 absorbing the information that's there, and is there a
20 better way to get it to them? And I think the idea of
21 pictures, you know, is a way that should really be
22 explored.

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1 The other thing that I've been thinking of, have
2 we thought of point of purchase kinds of ways of putting
3 these products in a place that says they are really
4 dangerous to kids if used inappropriately? To really
5 highlight to consumers that you're entering into a
6 different part of the supermarket, or into a different
7 part of the hardware store when you, you know, come into
8 the products that are rodenticides and pesticides, etc.,
9 and that perhaps if used according to the label, etc.,
10 etc., etc., they don't have impacts. But if not, if
11 those are violated, as we see that they can be, that
12 there are impacts.

13 So, you know, maybe some other thinking of how
14 that label information or that consumer information can
15 be conveyed is important to think about.

16 MS. SOLOWAY: I would just add that a number of
17 the issues that you raised were actually part of our
18 deliberations. We did hear some information about
19 pictograms. We discussed issues related to point of
20 purchase information regarding consumer outreach issues
21 and so forth. So they were part of our deliberations,
22 but we couldn't put everything into a few final

1 recommendations.

2 FEMALE SPEAKER: Right.

3 MS. SOLOWAY: But we do have some more
4 information available about those points.

5 MS. MULKEY: Does your report cover some of
6 these other issues?

7 MR. McDAVIT: The report touches on the point of
8 purchase issue, but it doesn't go into a lot of detail.
9 Because I think what bogged us down was we weren't sure
10 whether as feds we had the reach to get to the point of
11 purchase, because it probably is more of a state and
12 local -- unless we had expanding labelling -- and we kind
13 of spun out at that point, I believe -- it seemed a
14 little bit onerous to have competing products delivering
15 messages at the point of purchase in a grocery store,
16 where it's hard to get them to even carry bait stations
17 where there is limited shelf space.

18 So we really kind of spun out on that whole
19 area. We recognize that as a critical spot, but we
20 weren't sure how to get to it.

21 MS. SOLOWAY: It's very difficult really to get
22 retailers to put documents up in the store and to

1 maintain those documents. And unfortunately they don't
2 really run under the same jurisdiction, so it makes it
3 very difficult. And that's one of the things we did
4 discuss. You know, that point of purchase. You know,
5 whether we could do plaques or some kind of other
6 information. So with that it's really more the
7 difficulty and the experience that the industry has had
8 in getting retailers to put even documents to help sales
9 in general in the store.

10 MR. McDAVIT: Marcia, can I respond to one other
11 comment that was just made?

12 MS. MULKEY: Sure.

13 MR. McDAVIT: If you notice, I think item three
14 is a good example of progress made. If you look at the
15 simplified label -- I don't have my glasses on, so I'm a
16 little challenged here. But I can make it. It now makes
17 a statement about -- a more descriptive statement about
18 placing it behind a heavy appliance or something. And I
19 don't think that was explicitly -- that kind of language
20 wasn't there before.

21 And so the label before may have sent
22 conflicting messages. On the one hand it would say, put

1 the product where you have rodents, but keep it out of
2 reach of children. Well, how do you marry up those two
3 ideas unless you give an example of what we mean. So
4 that was a CLI kind of thing. Well, describe what you
5 mean by doing both of those things at the same time. So
6 put it behind a heavy appliance or something. So that's
7 an example, I think, of the progress that was made on
8 making it more meaningful.

9 MS. MOYER: But I want to pick up on somebody's
10 point who said -- Dan's, I guess -- the need to do some
11 real in-house -- because I'm thinking -- I'm lucky enough
12 not to have to have a rodent in my house. But I'm
13 thinking how does a person, you know, put it behind a
14 heavy appliance. You know, locked cabinets, etc. You
15 know, I think that's a pretty onerous burden on the part
16 of a homeowner. And if not understanding really the
17 toxic nature of the product might say, oh, well, I can't
18 do that. But the rats are a worse problem than whatever
19 is in here. I'm going to go ahead and just leave it out.
20 You know, I think that really seeing does make a
21 difference in the actual use place.

22 MS. SOLOWAY: I do want to make one comment

1 about what you said about the toxic nature of the
2 product. The products fall into the lowest risk category
3 in EPA's Category 4, so there is not the acute toxicity
4 to these products that people think. With the rat
5 poison, if a child eats, you know, one or two pellets
6 that there is this poison that if occurring. And
7 actually when the data was looked at, I do want to point
8 out there were very, very few incidents where there were
9 symptoms from ingestion of the product, which really
10 affects the clotting mechanism of the blood.

11 So, you know, I just wanted to take that
12 opportunity, just because of the comments that you made.

13 MS. MULKEY: One more question that relates to
14 comments. Two people have mentioned language and I think
15 three people have spoken. So that's obviously --

16 FEMALE SPEAKER: Uh-huh.

17 MS. MULKEY: Now obviously you're not going to
18 put 120 different languages on a label.

19 FEMALE SPEAKER: Right.

20 MS. MULKEY: But has there been discussion about
21 the key words. The key warning words in Spanish, which I
22 think is the next most prevalent language after English.

1 MS. SOLOWAY: One issue that comes up -- this
2 particular package lends itself to a lot more room. A
3 lot of the rodenticides are sold in place packs and small
4 packages. And because you have limited space to even get
5 the required language without making it mouse size, it's
6 difficult to put bilingual or tri-lingual on those
7 packages versus a package like this. And we're looking
8 at some of the -- you know, the place packs having one
9 ounce of product in it. So you are looking at something
10 that is very small.

11 MS. MULKEY: Okay.

12 MALE SPEAKER: A couple of comments. One, I do
13 think that this working group is a model for all the
14 working groups in the success that they've had at getting
15 to a joint conclusion that looks like consensus to me.
16 And that's nice to see.

17 I have a question about the report, and Eileen,
18 maybe you've gotten at this already. But there was some
19 disagreement or a lively discussion about setting a
20 quantitative goal of reduction of exposures to 50 percent
21 and that was abandoned. And I would just like to know a
22 little bit more about that.

1 MS. MOYER: Do you want to take that?

2 MR. McDAVIT: Yeah, let me address that. We
3 were -- the group just kind of kicked the idea around, is
4 there some way to establish some goal or some performance
5 standards. Where do we go from here. And I think there
6 was an interest in doing that, but we just didn't know
7 how to get there again. We didn't know where you set the
8 bar. Since we didn't know enough about the cases -- the
9 details of the cases, the behaviors behind the child that
10 resulted in any given case, it was kind of hard to set
11 the bar.

12 And I think we were hopeful that we could come
13 up with something, but we feel short of making that.
14 That's my recollection.

15 MS. MOYER: That's exactly right, Mike. And
16 also that's why we felt really for us to do that that we
17 need to improve the data collection that was taking
18 place. Before you can measure something, you need to
19 know -- have appropriate information to measure. And
20 that's why we talked about improving the data collection
21 opportunities. You know, what kind of questions should
22 poison centers ask when calls come in -- other types of

1 information -- so that we can really sort out the
2 exposure from non-exposure and some of the other calls
3 that come into poison centers.

4 MS. SOLOWAY: I might just add that none of the
5 data sources available really characterized the
6 circumstances of exposure. We have a meaningful number
7 in terms of reducing exposures. And we have a literal
8 tip of the iceberg number. A call to a poison center --
9 there are many calls to poison centers -- represents a
10 circumstance, but it's not the goal of a poison center
11 managing a potential emergency to do detailed data
12 collection about the circumstances.

13 That's one of the reasons why a recommendation
14 is that more research be done. And there are actually
15 many examples of research where data like these have been
16 used to identify a problem and then a structured study
17 conducted as a result of that to get at more issues. And
18 I think that's where -- that's something that we agreed
19 on.

20 MALE SPEAKER: Mike, you said this is sort of a
21 sunset of this group, and yet there are a lot of
22 recommendations going forward. Who would pick those up?

1 MR. McDAVIT: Well, my understanding would be
2 that the PPDC should consider these recommendations. And
3 I think as Marcia -- earlier on when we were killing
4 time, she was describing that it's really up to the group
5 to do whatever it sees fit. I mean, the agency will
6 react to whatever the PPDC wants to do as it sees fit.

7 But I think you've got a full medley -- kind of
8 a full story here, acknowledging that we didn't solve the
9 problem. I don't think we felt like we got that far.
10 But we certainly feel like we accomplished what we set
11 out to do, which was based on what we had what could be
12 recommended as a group. And in that sense it wasn't
13 perfect, but it certainly was progress on a continuum.
14 So I don't know if I'm answering your question.

15 MS. MULKEY: To be very literal, the agency
16 anticipates some sort of an amendment of the RED to bring
17 to conclusion the regulatory decision making under these
18 REDs. I mean, that's one piece of things.

19 MR. NIEVES: And I just wanted to add that the
20 RED -- SRRD management is looking to rewrite or schedule
21 a rewrite of this RED sometime for FY 2000 -- 2001. What
22 year are we in?

1 MS. MULKEY: It's 2001, yes.

2 MR. NIEVES: I can't keep track. Currently
3 right now we're working under a ecological assessment of
4 the rodenticides, so we're working on three things right
5 now. We're working to -- we're working on this side and
6 gathering these comments and see where we go from here
7 with this information. Then we're also working on the
8 ecological assessment. And then we're also working on
9 the label improvement.

10 And I guess at this point I'm basically the
11 lightening rod for -- or the contact person -- I'm not
12 exactly sure how you frame it -- for the rewrite and for
13 collecting all these comments. And Dennis Diesel was, as
14 I said, the Chemical Review Manager. Now this is my
15 responsibility, so we'll see where it goes. But right
16 now I'm collecting the information and the rewrite is
17 scheduled for later this year.

18 MS. MULKEY: Right. We will ask you -- one of
19 the problems we have here is that we have about seven
20 minutes. Two of our public commenters have asked to use
21 this time instead of later, so we may go an extra five
22 minutes before our break. But not much more, because we

1 need to get back.

2 We'll hear from Jose and Adrienne. And then we
3 will see if it makes sense to have some sort of PPDC
4 closure here.

5 DR. AMADOR: Mine will be short, because the two
6 points that I wanted to make have already been made. One
7 was the issue about using another language, using at
8 least a key word, as Marcia has said. We do that in
9 pesticides. You know, some of the key words. We have
10 danger, caution and warning at least.

11 The other one I have has to do with the
12 pictures, and that point has been made. I just wanted to
13 raise the question, what was the rationale for taking the
14 pictures out? I mean, there must have been a reason why
15 the pictures were taken out other than just space.

16 MR. McDAVIT: To keep that part short, I would
17 say that there is actually -- there are some differences
18 of opinion within the agency about the value of pictures.
19 And the reason is that pictures can say a lot of
20 different things to a lot of different people. So one
21 has to be very careful that you get the picture right.

22 And we have been in a bit of a discussion with

1 Eileen on this very point. So I think they were dropped
2 just for the sake of not having to go to that issue.

3 MS. MOYER: One of the things to keep in mind is
4 that this is a work product. It's not a final product.
5 And we did, you know, discuss what appropriate pictures
6 may be used. A picture of a refrigerator showing the
7 bait behind it. But to make things a little easier right
8 now as we, you know, are continuing to work on this work
9 product, we figured we would put the things on there that
10 were where we were right now, so that what you have is a
11 status. So that doesn't preclude the fact that in the
12 future there may not be pictures, especially on larger
13 packages versus your small place packs.

14 MS. MULKEY: Adrienne?

15 ADRIENNE: Yeah. I'm also going to be brief,
16 because I don't want to belabor the issue of language.
17 But, I mean, even on a small package where the word
18 caution is listed in English, it could be listed in
19 another language or even with a picture. I know that in
20 some pesticide products the agency has allowed some
21 picture use in order to indicate some type of danger.

22 I don't know how appropriate it would be in this

1 case, but a simple word directly under caution, for
2 example, on this label might work.

3 Also, an alternative to that is if -- because
4 it's really unfeasible to provide these packages in two
5 languages as far as use is concerned, it might be that
6 some type of 800 number, or some type of information is
7 available at, might be enough at least for the time being
8 if an insert is not possible. And, of course, we can't
9 have an insert that is available in all languages, so
10 something like -- something along the lines of what EPA
11 does if information is not readily available in Spanish
12 or in Chinese -- or one of the dialects of Chinese. You
13 can contact the agency and they can at least put you in
14 contact with people who can help you or who can get you
15 those materials.

16 Also, I just want to echo something that I
17 believe Sarah said about the delivery methods and putting
18 the onus not on the homeowner but on the manufacturer. I
19 can see why these pellets would be very attractive to
20 children. Fortunately, I've never had to use these
21 either. But there might be ways of making some of these
22 a little less attractive. And I would just hope that one

1 of the recommendations is to put a little more research
2 emphasis on that, just because ultimately -- as I believe
3 Dr. Steinberg said -- children will put anything in their
4 mouth.

5 You know, if you look at the pictures and you
6 see in the little bait box -- which since I've never used
7 these I thought maybe this comes with a little bait box.
8 And then reading more carefully I realize no, it doesn't.
9 The bait box seems like a great idea. So I don't know if
10 something like a roach motel -- I mean, I'm sure that
11 everybody who works in this field has thought about all
12 of these things.

13 But I just hope that any recommendation really
14 includes an emphasis on that.

15 DR. AMADOR: Marcia, could I just add one thing
16 to that? It's very short.

17 MS. MULKEY: Sure.

18 DR. AMADOR: Another thing you might want to
19 consider is a suggestion to the manufacturer to make
20 boxes with the whole thing in one language. There are a
21 lot of places now where ethnic foods are sold and the
22 whole thing could be done in one language, like in

1 Spanish. So they might want to consider, you know,
2 having boxes done in English and then boxes done in
3 Spanish, and then that way people can put them in
4 whatever they want to.

5 MS. MULKEY: Well, we appreciate your engagement
6 with this. What -- the only thing that really needs to
7 happen for the agency to consider this report as advice
8 -- we don't have to adopt it. We're not bound by it.
9 It's for this group to encourage the agency to consider
10 this report.

11 And so while I don't have to take a vote, what I
12 think might be helpful, is any sitting member of the PPDC
13 concerned about the idea of the agency considering this
14 report in its deliberations?

15 Yes, Ray?

16 RAY: A question on that point. It's outside my
17 area of expertise, but the report goes forward? It
18 doesn't close off discussion or outside input or comment
19 on it?

20 MS. MULKEY: No, none at all.

21 RAY: Okay.

22 MS. MULKEY: It's just advice. It's not

1 significantly different than the comments you all made
2 this morning on the EUP. That was made by the PPDC, so
3 that was advice we can receive from the PPDC. Because
4 this is a work group, we basically need your -- you
5 basically become the conduit. It doesn't mean you agree
6 with it. It just means that you think the agency should
7 receive this as advice that occurred in imprimature of
8 the PPDC.

9 Any other concerns? Yes?

10 MALE SPEAKER: Well, no. Maybe this is the
11 inappropriate time to say this. But I just -- you know,
12 I don't know for what reason, but I just wanted to say
13 that it was really a rather extraordinary process. I
14 recall at the first meeting there were people who
15 attacked other people's ethnic heritage and similar kinds
16 of remarks. It was really a very contentious meeting.

17 And in this process the EPA personnel who were
18 involved genuinely forged a consensus. And maybe it's
19 not, you know, the ideal solution. But I think it
20 produced a very tangible change in the way people use
21 rodent control products, and I compliment the agency and
22 the folks who were involved in it for making that happen.

1 MS. MULKEY: That's good to hear. One thing all
2 of you should know is that in addition to this exercise
3 there are two related exercises, one of which we've not
4 had a lot of discussion here but you heard mention, which
5 is the so-called consumer labeling initiative which is a
6 major effort. And at some point we may want to engage in
7 that. The other is some things having to do with
8 pesticide use in urban areas, which we are actually going
9 to discuss briefly this afternoon that relate to this
10 topic.

11 Well, then, I think what I would like to say is
12 that unless I hear dissent, I will assume that we have
13 heard from the PPDC that it is appropriate for the agency
14 to take this report as advice to it.

15 Very good. Now we will take two public
16 comments. And these are limited in time, as you all
17 know. The first is Sissie Spragins of Rockwell
18 Laboratories.

19 MS. SPRAGINS: Thank you. I'm actually speaking
20 on behalf of Bell Laboratories. I was a member of the
21 RSW and also a member of the RRTF. Bell Laboratories is
22 a manufacturer of a wide range of rodent control

1 products.

2 And I wanted to mention -- just make a couple of
3 points for the PPDC and the agency that in the course of
4 the discussions that the issue was really not the
5 toxicity of the rodenticides but the number of encounters
6 that children had. I think if you spray a liquid
7 insecticide, you know, along your baseboard you don't
8 really know if your child happened to touch it or not, or
9 you're not really cognizant because you don't see it.

10 But with a rodenticide, because it's a physical,
11 you know, solid product, if you put it out on the floor,
12 then it's picked up and then there is a call. But in
13 terms of the actual number of cases that actually caused
14 any, you know, medical symptoms at all, it was extremely
15 small.

16 Secondly, rodenticides are truly a microcosm in
17 the grand scheme of pesticide chemicals. It is a very
18 small market. It is a microcosm. And I think the
19 meetings were really extraordinary. I think it was a
20 very good opportunity to educate people on a subject that
21 unless you're embroiled in rodent control on a day to day
22 basis, which is an extremely small number of people that

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1 are, really there's not a lot of general knowledge about
2 that subject.

3 Thirdly, on the issue of bait stations, I guess
4 I've said it a lot of times and I might as well say it
5 one more time. We manufacture bait stations which are
6 tamper resistant -- or which we claim to be tamper
7 resistant. We are interested in selling these in
8 basically anywhere we can. The market has been limited
9 in the consumer realm for these types of bait stations,
10 and we don't advocate making it a requirement because we
11 feel like the cost of them would prohibit a number of
12 people that need these products from potentially buying
13 them.

14 We did talk about a number of the issues, you
15 know, and some that were raised in the discussion. It's
16 been kind of beaten to death in a lot of ways. But, you
17 know, we are working on things. Unfortunately, again the
18 size of the market relative to the current requirements
19 to actually show that a bait station is tamper resistant
20 so that you can make that claim on the label is basically
21 prohibitive. And that's basically an issue.

22 So there is no product on the market, despite

1 the fact the products are certainly going to protect the
2 bait more than an open placement to actually make that --
3 that they're able to make that claim because of the cost
4 prohibitiveness.

5 Thank you.

6 MS. MULKEY: Okay. Our next public commenter
7 comes from the City of Seattle. I'm sure I'm going to
8 butcher her name. But I did want to tell you that the
9 City of Seattle expressed a keen interest in
10 participating on the inerts work group, and because it
11 had progressed so far when that request came, we
12 encouraged them to be a very active observer, if you
13 will. And they've taken us up on that.

14 But in general we are delighted to see city
15 governments able to and willing to invest in paying
16 attention to pesticide issues. And so a special welcome
17 to Tracy Diconner.

18 MS. DICONNER: Actually, Marcia, I was hoping to
19 comment after the afternoon presentations.

20 MS. MULKEY: Oh, I'm sorry. We misunderstood.
21 We thought you wanted to comment this morning. We're
22 glad -- we're all ready to go to lunch, so we're happy to

1 have you later.

2 And we're off to lunch with a return exactly at
3 1:00. And you pay the price in your discussion time if
4 you don't follow that rule.

5 (END OF TAPE TWO, SIDE B)

6 (Whereupon, a lunch recess was
7 taken.)

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AFTERNOON SESSION

MS. MULKEY: -- from the other stakeholder work group that has been very active and is a work group of the PPDC. It's dealing with some very important issues relating to inert ingredients and public information relating to inert ingredients. This work group has, I believe, had two extended face to face meetings, and if I've got the number right, seven conference calls. This has been a hard working group. It represents a very rich mix of participants, experience, points of view, passions, concerns and considerations. And I think it is eager to have us know where it stands.

The presentations are to be made by two EPA employees, but they are being made in their capacity as co-chairs of the work group. So they're here to speak for and on behalf of the work group. All right. Cameo is going to do Bruce's --

MS. SMOOT: -- work group management.

MS. MULKEY: Oh, okay. So my notes are wrong.

MS. SMOOT: He changed his mind yesterday.

MS. MULKEY: That's fine. No problem. We can handle this. I think it's going to actually follow a

1 model more like what the rodenticide work group followed,
2 which is to call more on the talents of the work group
3 members but with a framing presentation from one of our
4 key people, Cameo Smoot.

5 MS. SMOOT: Thank you. Good afternoon. My name
6 is Cameo Smoot. I work with the Field and External
7 Affairs Division of the Office of Pesticide Programs.
8 The last eight months my division has assisted the inert
9 disclosure stakeholder work group and its activities.
10 And this afternoon I just want to present a very brief
11 status report on what's been ongoing for the last eight
12 months. I left a copy of just a quick summary of the
13 activities in your chair. Hopefully you'll come back and
14 -- if you don't have a copy, let me know. Also, as part
15 of the very small packet is a copy of the four proposals
16 that I'll discuss in just a moment.

17 In January of 1999 EPA asked this committee to
18 consider establishing a work group to advise the
19 committee on ways of making information on inert
20 ingredients more available to the public while working
21 within the mandates of FIFRA and confidential business
22 concerns. The committee acknowledged that an

1 investigation into the current EPA policy would warrant
2 constructive stakeholder input.

3 With the approval of the committee and after a
4 formal solicitation period, in July of 1999 EPA
5 established a diverse work group of members from public
6 health, environmental, industry, academic and state
7 government organizations. In March 2000 EPA sponsored
8 the first face to face meeting of the inert disclosure
9 stakeholder work group. Over the last eight months, the
10 work group has held two face to face meetings and seven
11 conference call meetings.

12 EPA's charge to the work group is to consider
13 potential measures to increase the availability of
14 information about inerts to the public. EPA also asked
15 the work group to factor into any work group
16 recommendations informational needs for a variety of
17 stakeholders; current agency processes and policies
18 related to inert ingredient information; commercial
19 considerations regarding the disclosure of inert
20 ingredient information; barriers and constraints in
21 existing law and policy, and relevant principles and
22 benefits of right to know.

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1 The work group -- over the course of the work
2 group activities, the work group agreed on some
3 evaluation criteria for any proposals that might be
4 introduced by work group members. Questions such as who
5 are the audiences, what are their informational needs,
6 how can their needs be met effectively, how can
7 commercial interests be protected, and what other
8 regulatory policies and schemes may be relevant.

9 Over the last eight months, the work group
10 members and EPA have coordinated in a series of
11 discussion papers to help answer some concerns. Some of
12 those questions that we've tried to answer are how
13 information about inerts is provided to health care
14 providers? How does EPA disclose information about the
15 inerts to the public? What is the role of patents in
16 protecting industrial proprietary rights? What are the
17 regulatory requirements for ingredient disclosure for
18 other products such as cosmetics, over the counter drugs
19 and/or prescription drugs? What types of barriers or
20 restraints for sharing inert ingredient information
21 exists between the federal government and the states or
22 within the states? What are the informational needs of

1 sensitive and vulnerable populations such as people with
2 multiple chemical sensitivities? To what extent can
3 ingredients in a pesticide product be reverse engineered?
4 To what extent is there standard nomenclature and/or
5 common names for inert ingredients?

6 Yesterday for the first time the work group
7 introduced four proposals which they had an opportunity
8 to critique. While there have been no formal decisions
9 as to which proposal may or may not be considered --
10 further considered for work group activities, the work
11 group did spend about six and a half hours yesterday.
12 And I'm going to turn over the mike to a number of the
13 work group members. Each of them has introduced
14 proposals to the work group, so they can briefly give you
15 an overview of what the discussions were about yesterday.

16 And the first person up is Carolyn Cox. And a
17 copy of that proposal is the second page in your packet.

18 MS. MULKEY: The second page? Oh, the petition.

19 FEMALE SPEAKER: It says the Cox proposal.

20 MS. SMOOT: Yes. It says the Cox proposal on
21 the top of the page.

22 MS. COX: Good afternoon. I'm Carolyn Cox and

1 I'm here from the Northwest Coalition for Alternatives to
2 Pesticides. We're a regional environmental group based
3 in Eugene, Oregon.

4 The proposal that I want to outline for you
5 today is based on a rule making proposal that was
6 requested by a petition that my organization submitted to
7 EPA back in January of 1998. That petition has been co-
8 signed by 260 local, regional and national environmental,
9 health and labor organizations. In addition, a parallel
10 petition was submitted by the New York Attorney General
11 and seven other Attorneys General. Those petitions were
12 one of the reasons that you all acted to form the inerts
13 disclosure stakeholder work group.

14 The proposal that I'm outlining is probably the
15 most conceptually simple of the four proposals that
16 you'll hear about this afternoon. It would simply change
17 current labeling requirements so that labels on pesticide
18 products would list all the ingredients in that product,
19 much like the label on a box of cookies. It has several
20 advantages. It probably requires the least amount of EPA
21 resources in terms of evaluating what needs to go on the
22 label.

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1 We tried to address concerns that registrants
2 have a way to protect the pesticide formula, which for
3 many products they would like protected as confidential
4 business information. So our proposal does not require
5 labels to actually identify what I would call the recipe
6 for the pesticide product. That is to say the actual
7 amounts or percentages of a particular ingredient. It
8 just lists the ingredients.

9 Of the four proposals that you'll hear about,
10 this one I think comes closest to meeting the full needs
11 of all the audience groups that the work group has
12 identified as needing information about pesticide
13 ingredients. So for state regulators, for health
14 professionals, for the exposed public and for pesticide
15 consumers it would give all of those groups the most
16 information of any of the four proposals about what is
17 actually in the product.

18 And I'll be happy to answer questions, but
19 should I wait until --

20 MS. MULKEY: Why don't we go through the four.

21 MS. COX: So I would be happy to answer
22 questions.

1 MS. MULKEY: If you have clarifying questions.

2 MR. ELWORTH: Yeah, actually I do. Who are
3 these proposals to?

4 MS. MULKEY: These are proposals within the work
5 group, as I understand it. They're not to us. They're
6 not to -- well, this one was filed as a petition.

7 MR. ELWORTH: Right.

8 MS. MULKEY: But with the exception of that, I
9 believe these were all just internal. They're in the
10 midst of their work. They're not finished and this is
11 just an internal stage in which they've developed four
12 proposals.

13 MR. ELWORTH: So are these proposal
14 presentations informational just for discussion?

15 MS. MULKEY: Yeah, I think so. Yes.

16 MR. ELWORTH: We're not being asked -- okay.

17 MS. SMOOT: Just one thing. I mean, it's
18 primarily informational. On the other hand, if any or
19 all of you have, you know, brilliant insights or ideas of
20 things that the group should think about when we get back
21 together in January, it would be helpful to hear those.

22 MR. ELWORTH: Okay, thanks.

1 MS. COX: Any other questions I should answer at
2 this time? Okay. So I'll be happy to --

3 MR. AHADOR: These proposals from the group are
4 from four separate people from the group, that each one
5 makes a proposal, or are these proposals of the group?

6 MS. MULKEY: They're not of the group. They are
7 within the group, for lack of a better word. One or more
8 members of the group have put them forward for
9 consideration by the group. They may or may not have
10 been massaged a little bit after their initiation. None
11 have been adopted. They've not been thoroughly -- the
12 group hasn't come up -- the kinds of things we heard
13 about the advantages of this, I think at this point are
14 her opinion and not the group's opinion.

15 These are just proposals that have some degree
16 of activity within the group, I think. Right? Have I
17 got that right?

18 MS. COX: So if you have more questions, I'll be
19 happy after the other people --

20 MS. MULKEY: Well, why don't you save them, so
21 you can --

22 MS. COX: -- finish their presentations.

1 MS. MULKEY: Yeah. So we can get everybody
2 together.

3 MALE SPEAKER: Do you have any more copies of
4 this proposal?

5 MS. MULKEY: It's the whole package that had
6 included it. Do we have some -- Cameo does have some.
7 You need to understand. This group met yesterday to
8 prepare for this -- in part to prepare for this session
9 after that. So that's why it's in a little less cooked
10 form than the other things we've heard.

11 JULIE: And I think each of these proposals was
12 discussed yesterday, too, so we're really basically
13 giving you what we gave to each other yesterday. The
14 proposal that I have put to the work group is -- and I
15 think it says Proposal for Consideration by the IDSW
16 Regarding Ingredient Information on Labels. And this
17 proposal is based on the recommendations that came out of
18 the Phase 2 of the consumer label initiative research and
19 the partners and task force recommendations from the CLI,
20 and also partially from EPA's interim guidance that was
21 issued on implementing the labeling changes.

22 As a result of that, you know, we did try to

1 implement some of these changes, and through that process
2 found some of the barriers -- encountered some of the
3 barriers. So part of this proposal is also to address
4 some of the barriers that we encountered.

5 The proposal basically is that EPA would issue a
6 PR notice indicating that registrants would be allowed to
7 portray their ingredient information on their labels in
8 whatever manner seemed most appropriate through a number
9 of options, you know, considering what would be
10 appropriate for that type of formulation as long as it
11 wasn't false and misleading.

12 And to facilitate that disclosure that EPA would
13 also include in that PR notice specific criteria for
14 allowable label placement of the ingredient information.
15 And this targeted particularly on the current requirement
16 that all ingredient information be located on the front
17 panel. This kind of is a barrier to putting a lot of
18 additional information on labels.

19 So that on packages that are small enough that
20 can be turned around easily, that the ingredient
21 information can be on the back or side panel, as long as
22 it is -- there is a referral statement on the front and

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1 the ingredient information is easily located and easy to
2 read. And then on larger packages, basic information
3 would be found on the front panel with additional
4 information located elsewhere on the package.

5 More importantly, that subsequently EPA through
6 the CLI or other appropriate task force or group would
7 conduct further research on what needs may not be met on
8 labeling through this and what may be the most
9 appropriate manner for including ingredient information
10 on labels. And that the research should also -- you
11 know, should examine the way that consumers expressed
12 that they want to see label information.

13 And then based on, you know, the conclusive
14 results of research that indicated how label information
15 should mostly appropriately be placed on labelling, EPA
16 could then initiate rule making procedures to require
17 such label information.

18 The last component of this proposal is that EPA
19 extend their current consumer education program, which is
20 the Read the Label First campaign, to include providing
21 consumers information about ingredients, such as the
22 meanings of the terms and the functions of inert

1 ingredients in formulations. FDA has done similar type
2 programs with explaining -- there are materials
3 explaining the purpose of food preservatives, food
4 additives and with cosmetic ingredients.

5 So in conclusion, this proposal -- and I'm going
6 to pass around -- I'll have one go each way -- a couple
7 of packages that have implemented this proposal, just so
8 you can see in, you know, real life the types of
9 ingredient information that would be provided. In both
10 of these the ingredient information is located right
11 under what's called the Quick Fax box on the back panel.

12 I think the advantage that we see for this
13 program -- or for this proposal is that it is something
14 that could be initiated immediately, you know, as a first
15 step. Even though it is voluntary, it would at least be
16 able to be initiated immediately. And with the
17 consequent research, we can ensure that we find the most
18 appropriate way of putting ingredient information on
19 labels so that we don't have kind of the unintentional
20 consequences of, you know, putting information on labels
21 that would actually be less likely to be read and kind of
22 run counter to our whole proposal to increase label

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1 reading.

2 And I can answer any, I guess, immediate
3 questions and then I guess we'll answer more questions in
4 the discussion.

5 MS. MULKEY: Any clarifying questions for Julie?
6 Okay. Do you want to move to number three?

7 MR. SURGAN: Good afternoon. I'm Michael
8 Surgan. I'm from the New York State Attorney General's
9 office, and I'm going to sacrifice 30 seconds of my time
10 to explain that the proposal that I submitted along with
11 others to the work group was submitted with my work group
12 hat and not with the hat of a petitioner. That petition
13 is in front of another forum where it's more
14 appropriately considered.

15 A group of seven of us representing diverse
16 interests got together and put forward a proposal that is
17 based on a recognition of the need and the right of those
18 who use pesticides, and those who may be exposed to
19 pesticides even though they didn't use them, to know the
20 precise composition of the products to which they've been
21 exposed.

22 And I think that it also reflects some of the

1 thoughts of the rodenticide work group that you heard
2 this morning. I heard that the rodenticide work group
3 found that the label was the best time to -- the best
4 part to educate the consumer and that the moment of
5 purchase was the teachable moment.

6 The proposal as it is set forth in the memo that
7 you have is, I think, also fairly simple and
8 straightforward, although not as neat and simple as the
9 proposal that was put forward by Carolyn Cox. It is
10 based on current practice for cosmetics. It's a practice
11 that is in use by federal regulatory agencies today. And
12 it is based on a presumption that EPA will require the
13 disclosure of all ingredients on the labels of pesticides
14 unless there is a specific finding to the contrary.

15 The proposal includes, as does the regulatory
16 statutes within which FDA works -- it includes provisions
17 as to what the content of a petition by a registrant
18 would be. The petition process would give the registrant
19 the opportunity to make to EPA its case for any
20 competitive advantage or economic distress that would be
21 caused by revealing the inert, and EPA would then
22 consider that against the presumption of disclosure and

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1 EPA's understanding of the toxicity and adverse effects
2 of the pesticide and the inert ingredients.

3 As far as time, we proposed a time line that
4 would require that registrants present the petition at
5 the first instance when they may be re-registering a
6 pesticide, when they may be filing for a label change or
7 in any case within three years from the passage of
8 promulgation of enabling regulations.

9 The proposal would give to the public much --
10 most, perhaps, but not all of the information that we
11 believe they should have. Obviously to the extent that
12 EPA decides that the information could be held
13 confidential, the public would be denied that quantum of
14 information. And in making that information available to
15 the public on the label, it would also certainly
16 similarly serve the needs of all the other audience
17 groups that we have identified.

18 And like my colleagues, I'll be happy to answer
19 questions.

20 MALE SPEAKER: Can I ask a clarifying question?
21 You're with the Attorney General's office in New York?

22 MR. SURGAN: Yes.

1 MR. ELWORTH: And on Carolyn's proposal it lists
2 that this is an excerpt from pages 18 and 19 of a
3 petition. Is that right, that New York has a pending
4 petition with the agency?

5 MR. SURGAN: Yes. I said -- I clarified that at
6 the beginning. Although New York is one of the
7 petitioners, I'm a member of the work group and I
8 proposed this as a member of the work group.

9 MR. ELWORTH: And is that -- is what you're
10 proposing substantively different from --

11 MR. SURGAN: Yes, it is.

12 MR. ELWORTH: Yeah, it is.

13 MR. SURGAN: Substantially different.

14 MR. ELWORTH: Why are you all doing that?

15 MR. SURGAN: In the spirit of cooperation in the
16 working group, we put forward a proposal that we thought
17 might address the needs of everybody around the table.

18 MR. ELWORTH: Okay.

19 MR. McALLISTER: Musical chairs without the
20 music. My name is Ray McAllister. I'm with the American
21 Crop Protection Association. In your packet you have a
22 two page proposal. Each page is entitled Draft Proposal

1 on Non-confidential Pesticide Product Summary. This was
2 put together by an informal coalition of trade
3 associations representing companies who are registrants
4 of FIFRA registered products.

5 By way of background explanation, over the last
6 few years EPA has received a large number of requests for
7 product ingredient information under the Freedom of
8 Information Act. To respond to those, EPA has prepared a
9 list of -- I think it's 12 or 14 questions which go out
10 to the registrant of each product for which there is a
11 request. And in responding to this, the registrant must
12 answer the 14 questions about each of the ingredients in
13 the product, justifying the reasons why that individual
14 ingredient should be retained as confidential business
15 information. This turns out to be a considerable burden
16 for both EPA in processing these FOIA requests and for
17 the registrant in responding on a product by product,
18 ingredient by ingredient basis.

19 So the origin of this proposal was to assist
20 both the EPA and the registrants in responding to these
21 types of proposals -- or these types of requests. As
22 such, it addresses only a limited aspect of the concerns

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1 which have been expressed over disclosure of inert
2 ingredient information.

3 What this proposal does is it proposes that the
4 registrant prepare a releasable summary -- a pesticide
5 product summary -- outlining the ingredients in that
6 product. The releasable product summary would have
7 information which would identify the function of an
8 ingredient in the formulation. It could identify the
9 chemical or common name or a generic chemical
10 classification. The means of identifying the ingredient
11 would be at the discretion of the registrant.

12 If you look on the page that has a table on that
13 with boxes numbered one through four, the active
14 ingredient in box one is already required on each product
15 label or the number of all of the active ingredients. In
16 box two the registrant would identify all other
17 ingredients through one of those means of identification:
18 purpose, actual chemical or common name or the generic
19 chemical classification.

20 In box number three the registrant would
21 identify any ingredients of toxicological concern now on
22 what EPA calls its List 1 of inert ingredients. If these

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1 occur in a product, they already have to be identified on
2 the product label. In box four the registrant would
3 identify other ingredients associated with specific
4 physical or health hazards. This is the type of
5 information that now occurs on the material safety data
6 sheet for each of those products.

7 Depending on how such a proposal were
8 implemented and whether it is strictly voluntary or
9 through some regulatory means, the other page gives three
10 possibilities for submission of that information, whether
11 it's a releasable product summary, a phrase which already
12 occurs in the regulations and could be modified slightly
13 to accommodate this type of submission. Whether it's a
14 non-confidential formula description form, which would
15 accompany and not replace the current confidential
16 statement of formula that is submitted to the agency. Or
17 a new type of form, a pesticide product technical data
18 form.

19 As such, this proposal -- or this type of
20 information could be provided by EPA to any requester for
21 the ingredients information on a product. Another
22 possibility is to make this information available through

1 some clearinghouse, such as an Internet web site where
2 anyone can go look to find this information. It is
3 strictly the information that the registrant chooses to
4 disclose about his product. It is not a full disclosure
5 unless the registrant so chooses.

6 We expect that this type of information would
7 satisfy a large number of the requests that come into the
8 agency, and could dispense with a lot of the bureaucratic
9 effort required to respond through the Freedom of
10 Information Act.

11 MS. MULKEY: I have one clarifying question.

12 MR. McALLISTER: Yes.

13 MS. MULKEY: Do you have any sense of how many
14 inert ingredients or other ingredients would have to be
15 disclosed under your proposal because they are required
16 to be listed on the MSDS?

17 MR. McALLISTER: I don't have a good feel for
18 that information. Some of the others might.

19 FEMALE SPEAKER: I think it varies, you know.
20 The types would be the products that have physical
21 hazards, such as flammability. So if you've got a
22 propellant it would probably show up on there. If you

1 have a hydrocarbon propellant. You know, many solvents
2 because of flammability or other reasons. Anything that
3 would be required through HAZCOM to be on an MSDS would
4 be included. So fitting the hazard communication
5 criteria for what is a hazardous material, either by
6 toxicity --

7 MS. MULKEY: Did the work group discuss this
8 proposal enough to focus on that item four and how much
9 disclosure it carries with it or doesn't carry with it?

10 MR. McALLISTER: Yeah, we discussed it. Now
11 it's nothing new in terms of disclosure, because the
12 information is already made available on the MSDS sheet.
13 And this is not placing that type of information on the
14 label. It is simply a separate avenue for disclosure of
15 the ingredients information.

16 MS. MULKEY: But I think I heard you say it
17 might be on a web site.

18 MR. McALLISTER: Well, that's a possibility of
19 taking this entire form, whatever form it takes, and
20 making that available publicly, so that an individual or
21 an organization interested in getting that information
22 could get it directly and not go through the bureaucratic

1 process of the Freedom of Information Act.

2 MS. MULKEY: Okay. Any other clarifying
3 questions?

4 MALE SPEAKER: I have a question. Ray, to the
5 point about the label, why -- was putting this
6 information on the label considered by your group, and if
7 so, why was it rejected?

8 MR. McALLISTER: Well, putting this type of
9 information on the label is basically the proposal that
10 Julie described. They're companion proposals. They're
11 not separate. They're not -- no. You know, you don't do
12 one or the other. You could do both of them together.
13 This is a central repository for this information. It's
14 probably easier to implement in the short run. And what
15 Julie described was putting exactly this type of
16 information on a label.

17 MALE SPEAKER: Okay, thanks.

18 MS. MULKEY: Phil?

19 MR. BENEDICT: Yeah. Is just saying that there
20 is an emulsifier in the product good enough under part 2?
21 It says one of the above, and one of the options is to
22 say that it's a surfactant or an emulsifier. It doesn't

1 tell me what that is.

2 MR. McALLISTER: That's correct. This is up to
3 the discretion of the registrant to choose how he
4 identifies that product, and the limitation being that it
5 not be false or misleading. Now one registrant is going
6 to choose to disclose more information on this type of
7 form. Another one will disclose -- will choose to
8 disclose less. As I said, it's intended to facilitate
9 provision of this information which is now going to the
10 Freedom of Information Act. It doesn't preclude anyone
11 who says this isn't enough from going ahead with a
12 Freedom of Information Act request.

13 MR. BENEDICT: And I can't figure out who this
14 piece of -- who this form is going to be filled with.
15 Does it accompany the label, or is it part of the
16 registration packet, or where does it go? Because that
17 really doesn't help the states much, at this point,
18 unless it's out there in some other format.

19 MR. McALLISTER: Well, yeah, it would be filed
20 -- those details certainly haven't been worked out,
21 because it's just an initial proposal. But it could be
22 filed with the registration package with EPA. EPA could

1 take on the responsibility of making this available in a
2 readily assessable form or avenue to states and others
3 having an interest.

4 MR. BENEDICT: If this thing came to pass where
5 you've got provisions about CBI in your law, would that
6 work around those issues for us or not from a state
7 perspective?

8 MR. McALLISTER: This is not intended to
9 disclose CBI. Unless the registrant chooses to put all
10 of the ingredient names on there, you would not see that
11 type of information. It's not a replacement for the
12 confidential statement of formula. It would accompany or
13 be in addition to the confidential statement of formula
14 that EPA now receives.

15 MS. MULKEY: We have about 15 minutes. I'm sure
16 that this group has opinions about disclosure. It would
17 be good if anybody wanted to share any particular
18 suggestions for the work group about where to focus. So
19 if anybody has any advice that is either with respect to
20 a particular proposal -- I think you saw, as I saw, there
21 are two proposals that go in one direction and two
22 proposals that go in another direction in terms of

1 mandatory or voluntary, scope and so forth.

2 So if people want to talk about direction rather
3 than details, but let's try to use that time to help the
4 work group because they're not done.

5 Bill?

6 MR. ROSENBERG: Yeah, thanks. I sat in
7 yesterday on the group as a member of the audience and
8 watched them go through their work, which I think is
9 pretty difficult because people are coming from very --
10 as he stated earlier, very different places on this
11 issue. And one of the things that I thought was
12 encouraging was this preamble to the proposals in terms
13 of asking a series of questions.

14 And I would advise this group to take a step
15 back. I think they went to solutions fairly quickly. I
16 know that there has been this eight month period. But
17 they went to solutions without really setting a common --
18 I think coming to some sort of concurrence in answering
19 these preamble questions in a way that might lead them to
20 some commonality.

21 Because right now it's very polarized. My sense
22 is that they can't come together in the process that has

1 been set up now. And I would encourage everyone to maybe
2 model themselves after the rodenticide group, find some
3 areas of commonality and then work toward solutions.
4 Because right now this group will -- the way it looks to
5 me will not come to any kind of a fruitful conclusion as
6 a group.

7 And you're saying, you know, we can pass over
8 these differences and there doesn't need to be
9 concurrence. But we'll be faced with full disclosure or
10 not and that's it. And there's no marriage there.

11 MS. MULKEY: Convergence is always better.
12 Larry?

13 MR. ELWORTH: Well, my question is a little
14 different, but it has the same issues that Bill does.
15 And actually I'm interested in the answers -- what
16 answers the work group has to these questions here. I
17 mean, it's not clear to me whose purposes this serves. I
18 mean, if this were -- for example, in my life this would
19 have an impact on me. It's presumed that in the middle
20 of either going to Lowe's or Wal-Mart I'm real interested
21 in having more information in front of me when I have to
22 stand in line or something. The last thing I want in the

1 store is any more information.

2 So I'm really -- which isn't to say that you
3 should or shouldn't be doing what you're doing. But I'm
4 real interested in what the group considers the answers
5 to these kinds of questions. Who would use this
6 information? What would they use it for? How would they
7 use it?

8 So I don't know how we get -- how we could hear
9 about here from the group what you all are thinking about
10 that, but it would be real helpful to me.

11 MS. MULKEY: Cameo, can you do anything? Or
12 anybody?

13 MS. COX: Could I take a few minutes? I think
14 my organizations and many of the other organizations that
15 signed the rule making petition to EPA started from a
16 perspective of public right to know that we're all
17 exposed to pesticides and that that gives us a right to
18 know what we're exposed to. And I think that's a
19 sentiment that has strong public support, but is
20 certainly controversial and not something that everyone
21 subscribes to. It is something that I believe very
22 strongly.

1 And then when you look at the specific audience
2 groups, I think you see specific needs. Health care
3 providers may be the most obvious group with specific
4 needs. If they have a patient which they need to treat
5 and need to treat that patient quickly and efficiently,
6 they need to know what substances are that they're
7 dealing with.

8 When you talk about pesticide users or pesticide
9 consumers, some of those are people standing in line at
10 Wal*Mart buying a pesticide. But some of them are school
11 districts, city parks, county road maintenance crews and
12 other public agencies. And many of these public agencies
13 feel a responsibility to consider the particular impacts
14 of their management practices on local specific problems.

15 I come from the northwest and saving salmon is a
16 big deal in the northwest. A lot of the public agencies
17 in the northwest are committed to trying to change their
18 practices in a way that will protect salmon to the
19 maximum degree possible. Many of these agencies are not
20 able to fulfill that job, because if they're using
21 pesticides, they don't have the information about what is
22 in that pesticide in order to evaluate what its potential

1 impact in their local area might be on, you know, Coho
2 salmon or whatever.

3 So there is a variety of different audience
4 groups. If you're a parent and you have a child who you
5 know is allergic to a particular substance, you would
6 want to avoid using a pesticide product in your home that
7 contains that substance. Right now you have no way of
8 knowing whether that's the case or not.

9 And I guess I could go on with more examples,
10 but I've probably taken too much time. So I'm going to
11 pass the microphone on. But if that didn't clarify it,
12 please ask more questions.

13 JULIE: Just looking specific to labeling, you
14 know, I did base the proposal -- I put forth on the
15 consumer labeling initiative. So it was looking
16 primarily at consumers -- you know, consumer products and
17 consumer labelling, although I think some of the aspects
18 go to all labelling.

19 And I know Marcia made some mention earlier to
20 the CLI and maybe at some point some more information can
21 be provided on that. But the CLI based on the -- we had
22 done some initial research in phase one and also got a

1 number of public comments in phase one specific to
2 ingredient information. So ingredient information on
3 labels was one of the particular topics and particular
4 focuses of the research that was done with consumers in
5 phase two.

6 And these are both quantitative and qualitative
7 phases. The quantitative phase involved a survey sent to
8 about -- we got responses back from almost 3,000
9 consumers in three product categories, about a thousand
10 in each category: outdoor pesticides, indoor
11 insecticides and household cleaners. And different
12 ingredient formats were put forward to consumers. The
13 most preferred was more this generic description with
14 also the function of the product or the purpose of the
15 material. Full disclosure was one of the options that
16 was given to consumers, but was not favored.

17 So I think the question was not so much to
18 disclose or not to disclose, but how to disclose and what
19 to disclose that would be most useful. And even though
20 the proposal I put forward the initial phase is
21 voluntary, I think the more important is that the
22 recommendation from the CLI partners and task force which

1 was made up of a lot of agencies -- various agency
2 personnel as well as the company partners, was that we
3 needed to get more information on the specific kind of
4 formats, or how specific we should get on what type of
5 information we would put on ingredient -- for ingredient
6 labelling.

7 And so I think my thing is let's not -- let's
8 walk before we run. That is, I guess, my opinion in a
9 nutshell.

10 MR. ELWORTH: Well, what I am struck by is that
11 if -- just, for example, two of the possible audiences
12 are the consumer on one side and a health care provider
13 on the other. The level of information to health care --
14 the kind of information and the level of detail -- or
15 technical detail that a health care provider might want
16 would be very, very different from what a consumer might
17 either want or be able to use.

18 Did the work group talk about being able to
19 accomplish the same thing through different formats in
20 any of the proposals?

21 MR. SURGAN: If I may, I would like to answer
22 your question and also supplement what the two previous

1 speakers have said. One of the problems that I see in
2 the way that the work group has been progressing or in
3 trying to differential these groups is that there is a
4 tendency to pigeonhole some of these categories. There
5 is a tendency when we talk about state governments to
6 think in terms -- in limited terms of the needs of the
7 agency that regulates pesticides, and there is a tendency
8 when we talk about consumers to think about the average
9 housewife or house husband at Lowe's. And I think that
10 those are both very dangerous over simplifications.

11 State governments incorporate a variety of
12 agencies and offices who have an interest in protecting
13 the health of their workers and protecting the health of
14 the people who come to do business in the office. And
15 they don't have access to the information that may be
16 available to the regulatory agency in that state who may
17 or may not possess a CSF.

18 For instance, the Attorney General's office. My
19 office is in New York City. We are in rented space.
20 Pest control is the province of our landlord. Our
21 landlord cannot provide me with information that I would
22 offer I'm qualified to evaluate. The landlord makes

1 enough money to hire a consultant to advise him, but he
2 doesn't have the information.

3 In other places in New York state, the Attorney
4 General's office is located in state owned and operated
5 buildings operated by the Office of General Services.
6 They do not have access to the detailed ingredient
7 statements that may reside with our State Department of
8 Environmental Conservation. The same goes for other
9 agencies of state, county and local governments who are
10 well qualified to evaluate the information, who are
11 taking upon themselves perhaps substantial responsibility
12 and perhaps even liability in the use of pesticides and
13 the exposure to people who use the properties that they
14 own and manage. And I think that these aspects are too
15 easily overlooked when we pigeonhole populations.

16 And as for the remaining -- as for the average
17 housewife and house husband, I think that there is a
18 great deal to be gained by first providing them with the
19 information that will enable them to take part in their
20 own health care, and whether or not they understand it,
21 whether or not they are readily able to provide their
22 doctor with that information. Not just for emergency

1 health care, but for health maintenance care throughout
2 their lives.

3 And then also to inform them and perhaps
4 stimulate them to learn more. If those ingredients were
5 on the labels, even those people who were not aware might
6 now become aware of it and might invest the effort to
7 find out what the importance -- what the significance of
8 that bit of labelling is.

9 MS. MULKEY: We have three minutes on this
10 topic, and more than three tents. We will take
11 everybody. But part of what you're getting the flavor of
12 is how much there is to be said on this, which is why
13 there have been two full meetings and seven conference
14 calls. And we will not get, and you will not get as the
15 PPDC today, a good thorough flavor of what the dialogue
16 is. But we probably have some means to help facilitate
17 that, including the fact that the stakeholder meetings
18 are public and one can either personally monitor them or
19 ask.

20 Now of the PPDC members who are on the work
21 group -- anybody?

22 **(END OF TAPE THREE, SIDE A)**

1 MS. MULKEY: -- and Sheldon. So you also have
2 some people. So you may be able to take advantage of
3 those relationships.

4 FEMALE SPEAKER: And Jay.

5 MS. MULKEY: And Jay. Okay. Of those
6 relationships for other opportunities to have these
7 discussions.

8 But having said that, we'll take the remaining
9 tent cards and then we'll think about our next step
10 briefly. And I paid no attention to the order in which
11 they went.

12 MALE SPEAKER: I have some clarifying questions
13 for Michael, though.

14 MS. MULKEY: All right. Well, why don't you do
15 that and then we'll go.

16 MALE SPEAKER: Two things, Michael. When you're
17 talking about sort of an occupational exposure issue,
18 have you tried getting material safety data sheets on
19 these products which are supposed to list the hazardous
20 ingredients, and has that been helpful at all?

21 MR. SURGAN: In rare -- well, in some occasions
22 there is information on the MSDS which goes beyond what

1 is available on the label. But that is certainly not
2 uniform and it's certainly not widespread. And without
3 commenting on the validity -- the value of MSDS's, again
4 they are information that is prepared by the company and
5 done by people who have the interests of the company and
6 their confidential business information in mind.

7 MS. MULKEY: J.J.? Oh, I'm sorry. I didn't
8 mean to cut you off.

9 MALE SPEAKER: One other question just to wrap
10 up on your proposal. With cosmetic labelling there is
11 sort of a provision for catchall, nonspecific
12 terminology. Are you comfortable with that?

13 MR. SURGAN: I provided that -- I used that as a
14 model. I'm not saying that we can lift it without
15 modification. I am sure that my friends on the other
16 side will also have modifications. I think that that's
17 something that we can look at. Yesterday at the work
18 group meeting there were questions about fragrances and a
19 recognition that we may need to deal at greater length
20 with fragrances. And I'm sure that several of us on the
21 working group have thoughts about the role of fragrances
22 in pesticide products.

1 MS. MULKEY: All right. J.J.?

2 DR. STEINBERG: I think there should be no doubt
3 that consumer labelling has been one of the great success
4 stories in the '90's. I think the industry has done a
5 spectacular job as it relates to consumer labelling. I
6 think they did that with the FDA. And though it was a
7 costly process in the beginning, you are clearly selling
8 more food, and Americans are clearly eating more food,
9 based on consumer labelling.

10 (Laughter)

11 And I have to admit, we know that because as we
12 all know now -- and I apologize for this. America now
13 leads the world in the weight of the Americans. We are a
14 weighty country.

15 (Laughter)

16 So as I said, consumer labelling is clearly a
17 success. There are obviously leaders in industry that
18 did this with the FDA. The FDA has a great deal of
19 experience in this. I know that EPA has been keen on
20 trying to set this up. People like Anne Lindsay have
21 been working on this for a long time. I think it would
22 be good to make sure that we can keep this committee

1 invigorated to try to come to some conclusion on this,
2 because this will be good for everyone.

3 MS. MULKEY: All right. Are we going to endorse
4 that?

5 **(Laughter)**

6 MALE SPEAKER: Well, I think the group is
7 continuing the work on the area of labels. I think we
8 were also able to identify a couple of other areas
9 dealing with medical and medical emergency situations,
10 and also with states -- state officials, state
11 governments and state operations. And I think in both of
12 those areas there is an opportunity to try to look at an
13 array of potential information, whether they be 800
14 numbers or educational programs or databases or web sites
15 or any other kind of additional information.

16 And the real question is, how can we get
17 important pertinent information to people who are, first
18 of all, caught up in a medical emergency. Whether we're
19 talking about an emergency room or a clinic or a doctor
20 or a nurse or some kind of health care professional or a
21 poison control center, how can we get pertinent
22 information to immediately address that particular

1 problem.

2 And then the other issue that we just briefly
3 talked about was the whole issue of state and state
4 governments and the ability to share information with
5 different parts of state government. I think those are
6 all difficult and thorny issues to work with, but I think
7 they really have an opportunity to try to make some
8 progress or to come up with some specific solutions in
9 each of those areas.

10 And I think we made a lot of progress yesterday
11 in getting our arms at least out and around some of these
12 topics. We've got a long way to go. But I think we made
13 some progress, and I think we can make further progress
14 in January and down the road.

15 MS. MULKEY: Jay?

16 MR. VROOM: I've long been an advocate of more
17 information and disclosure, respecting the fact that
18 there are commercial considerations and some of those can
19 evolve also on the commercial side. So I guess I would
20 like to sort of react to what I've heard from the
21 presentations in saying that I have a sense that there is
22 some convergence. But maybe what I heard Bill say also

1 seems to be apparent to me, and that is that the movement
2 probably has been incremental. And maybe we're focusing
3 too broadly on these issues when, as I think Warren just
4 said, you know, just to call all of these products
5 pesticides in the context of understanding inert
6 disclosure issues, both commercial and scientific and
7 medical interests, probably need to be looked at
8 differently in some cases, and that compromise doesn't
9 always need to be straight down the middle between the
10 two polarized positions.

11 And the more we can look at policy and an
12 approach that perhaps reflects the fact that the
13 disclosure that might be helpful and important that could
14 be on a package of rodenticide may be different from what
15 is necessary for atrazine that farmers use. And I don't
16 have a sense from what I've heard today, and what I've
17 sort of gleaned in monitoring the Internet
18 communications, and the written record from the work
19 group that that kind of detail has been addressed yet.
20 And so I would encourage you to think about that.

21 I'm going to ask a question, I think probably
22 for the agency. And I'm afraid I'm going to regret

1 asking this. But in looking at the samples -- the label
2 samples that Julie sent around, I was reminded that there
3 has been some discussion around whether the term inert,
4 you know, was viable or not. And I can't remember kind
5 of where that is, except for the fact that I guess these
6 are actual labels, Julie, and they don't use the word
7 inert. They use the words other ingredients.

8 So where are we at on that?

9 JULIE: There was a PR notice issued in 1997
10 that allowed the use of the word other in place of inert.
11 So that's kind of where we are at with a lot of the
12 recommendations, that there were things that were being
13 allowed -- changes that were being allowed to be made and
14 in some cases encouraged.

15 MS. MULKEY: Right. I would say we've
16 encouraged the use of the term other, but the word inert
17 is still in the statute. It's still in regs. It's still
18 in -- so we work with both terms.

19 MR. VROOM: But that discussion is over, so we
20 don't have to worry about that.

21 MS. MULKEY: I wouldn't say it's over.

22 **(Laughter)**

1 There's room for more. But I don't think there
2 is any --

3 MALE SPEAKER: There's still time for a recount.

4 **(Laughter)**

5 MS. MULKEY: I don't think it's -- always.
6 Always time in our business. But I don't think it's
7 controversial to use other, and whatever controversy is
8 left is with the continuing use of the word inert. But
9 that is sort of constrained by some remaining legal
10 context.

11 Well, I've been watching the clock assiduously
12 on your behalf, and we have one public commenter
13 remaining. It's the woman I introduced you to this
14 morning from the City of Seattle. Her interest is in
15 talking about inerts. And it's the only one, and we have
16 30 minutes allocated. So I would suggest -- not for her
17 to speak in as a public commenter.

18 But I suggest we hear from her and we wrap up
19 this topic, and that we will only be 15 minutes behind
20 after having done that. So other than timing of the
21 break, we should be in good shape in terms of going
22 forward. So you would think after she helped me --

1 Diconner?

2 MS. DECONNER: Deconner.

3 MS. MULKEY: Deconner. Oh, boy.

4 MS. DECONNER: Well, thank you. And again I'm
5 Tracy Deconner. I'm here representing the City of
6 Seattle. And pesticide issues, and particularly today,
7 inert disclosure issues, are very important to the city.
8 People think of city government as, you know, picking up
9 garbage and whatnot. But we're also stewards at the city
10 to over 110,000 acres of public land. That land is in
11 parks. It's in rights of way. We have ornamental beds.
12 We have golf courses. We have zoo exhibits. We own an
13 entire watershed that our water supply comes from, and it
14 tastes a whole lot better than your water, I have to say.

15 **(Laughter)**

16 We also have several production greenhouses. So
17 we face a pretty wide array of pest management issues.
18 We implement IPM in all cases, and sometimes that
19 involves use of a chemical control.

20 And as Carolyn pointed out, we are very
21 concerned about the impact of all the chemicals that the
22 city uses, be it on janitorial uses, fleet maintenance

1 and pesticides. And we're concerned about what the
2 impact on a residence, our employees and the environment
3 is from those chemicals.

4 We do a lot with communication in the city, and
5 we go far beyond legal requirements in both our pesticide
6 application signage protocols, as well as our posting
7 protocols. We do a tremendous amount of outreach on
8 pesticide issues both about what we do internally, as
9 well as trying to help our residents to make informed
10 choices through our natural lawn care program, salmon
11 friendly gardening program and other programs. And the
12 effect of those and the ability to meet all of the
13 questions of our residents is limited by not having full
14 information about inerts.

15 It is important to us that we can make informed
16 choices, and particularly with the pesticides that we
17 use. So what we've done is a hazard assessment on all of
18 our pesticide products. We've looked at about 12
19 different human health and environmental criteria. But
20 that assessment, again, has been very limited by not
21 having access to all of the inert ingredients in order to
22 do that.

1 Again, we go far beyond the law. We've
2 eliminated use of many perfectly legal products in the
3 city because, you know, as Carolyn, again, pointed out,
4 we are concerned about the salmon, the pollinating
5 insects, and making sure we provide safe habitats to as
6 much wildlife as we can attract within our city.

7 We also want to make sure that our residents can
8 make informed choices about whether they want to enter a
9 park area that has been treated, for example, or come to
10 a festival on the Seattle Center grounds. They need to
11 know about the applications, which is why we have
12 increased our requirements for internal operations on
13 posting. But we also feel that they need, and they feel
14 that they need, information about the inerts so they can
15 make those decisions. Some of our residents have
16 multiple chemical sensitivity or otherwise immune
17 suppressed and really feel that they need this.

18 There is a third category that we feel is a
19 fundamental right to know for our residents. Sometimes
20 the state government -- not the city, but the state --
21 has to come in and treat for gypsy moths. We completely
22 support the need to protect our urban force by

1 controlling these invasive destructive pests. But in
2 this case, when you're applying pesticides to people's
3 homes, their personal property and their yards where
4 their pets play and their children play, it is important
5 that they have all the information that they need to be
6 able to protect themselves and to comment on the process
7 of applying pesticides for control of those insects.

8 So in conclusion, the city supports disclosure
9 of inerts, but we also appreciate the need to protect the
10 business interest. We hope through our purchasing
11 practices, and the information that we give our residents
12 in their purchasing practices, will encourage industry to
13 research and bring to market safer alternative products.
14 And it is important that any action taken on inerts not
15 inhibit or impair the ability of manufacturers to do
16 that.

17 Also, we've been really encouraged by the
18 activity on the work group. I think we feel that they
19 have brought forward the issues. They've really flushed
20 out the issues and that they're ready to take the next
21 step. The interest of industry and the environmental
22 groups has been described as very polarized, but it's not

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1 mutually exclusive. And we feel that it is EPA's
2 responsibility to kind of focus that group as they move
3 forward and facilitate that in a way that it's going to
4 produce some outcomes.

5 Thank you.

6 MS. MULKEY: Thank you. Jay, is your tent card
7 still up or is that left over? Well, I will hazard a
8 very brief attempt to summarize what I thought I heard
9 from the committee and its advice to the work group.

10 I think I heard at least some members of this
11 committee saying think about looking for partial or
12 intermediate successes. Now not everybody said that, and
13 I suspect not everybody said that because there is a fear
14 that a partial success will be latched onto and that
15 nothing more will happen. And so I thought I also heard
16 a sentiment that says be assured that we're with you for
17 the long haul.

18 So maybe it's possible to combine those two
19 messages to say it's alright to look for partial and
20 intermediate successes, because we will not abandon the
21 effort to try to go further in the face of some limited
22 or partial or intermediate successes. So I'm only trying

1 to summarize. I'm not trying to substitute my own
2 judgment.

3 I am torn personally between the grab a few
4 successes and the desire to sort of get all the way as
5 far as we get can while there is the impetus behind it.
6 But I thought I heard those two sentiments and a way that
7 possibly could put them together as guidance from what I
8 heard out of this committee.

9 Does anybody else want to amplify that? Because
10 otherwise we're just sending them off to work more, and I
11 think all of you did that in your various ways. Does
12 anybody want to correct or modify my summary?

13 All right. Well, we are scheduled to move into
14 a very expansive discussion of residential pesticide
15 issues. One of the earliest things you will learn is
16 what we mean by that. We don't just mean inside a
17 person's private home. This is sort of a catchall term
18 that really includes everything that is not agriculture
19 and isn't the occupational part of the issue.

20 We have a set of presentations scheduled to last
21 about an hour, and then we have about an hour of
22 discussion scheduled. So what I suggest we do is that we

1 really monitor the presentations so they only last about
2 an hour. And that will be hard, but that will take us
3 until three. And then we have a discussion, we break at
4 some point, and we complete the discussion, so that we
5 have at least a full hour of discussion on this vital set
6 of topics.

7 So, Bill, do you want to lead us off? I know
8 you all are all eager for your break, and you've got to
9 wait a hour and a half for it. But, you know, we haven't
10 been back that long. Okay. I'll give you a minute to --
11 I'm afraid to encourage you to get up. I'll loose you
12 all. But let's get going and try to keep people from
13 drifting on us, as it were. I want to avoid that drift
14 problem.

15 MALE SPEAKER: You would make a good cowboy,
16 Marcia. You don't let the herd mill.

17 MS. MULKEY: Don't let the herd -- what's the
18 word?

19 MALE SPEAKER: Don't let the herd mill.

20 MS. MULKEY: Mill. Oh, okay. I spent my career
21 managing lawyers.

22 **(Laughter)**

1 MALE SPEAKER: They're all the same, cowboys and
2 lawyers.

3 MS. MULKEY: That's what I thought.

4 **(Laughter)**

5 All right.

6 MR. KENT: Good afternoon. My name is Ray Kent
7 of the Health Effects Division. We appreciate the
8 opportunity to talk to you about exposure assessment --
9 residential exposure assessment. There is a common theme
10 to several of the presentations you're going to hear, and
11 that is that our residential exposure assessments are
12 data based.

13 In some instances the data are actually on the
14 chemical we are assessing. In other instances we may use
15 surrogate data, which are data on other chemicals with
16 similar use profiles. Even our so-called default
17 assumptions have their basis in actual data.

18 Since we have a lot of material to cover,
19 without further ado I'm going to introduce the speakers.
20 The first presentation will be by Bill Wooge of OPP's
21 Health Effects Division, who will present an overview of
22 the process currently used to assess residential exposure

1 and risks. Bill's talk will touch on the types and
2 sources of data available for residential exposure
3 assessment and how we make use of this data to assess
4 residential risk.

5 Kathy Davis of OPP's Biological & Economic
6 Analysis Division will present a brief overview of the
7 types and sources of use and usage data for residential
8 exposure assessment.

9 Following Kathy, Chris Saint of the agency's
10 Office of Research and Development will present a talk
11 which will focus on how the agency seeks to identify
12 important residential exposure pathways and how to
13 quantify exposures that may occur via these pathways.

14 Claire Gesalman of the Field and External
15 Affairs Division will have a short presentation on the
16 urban initiative and education and outreach program to
17 inform children and adults about proper storage and use
18 of pesticides in and around the home.

19 Kathleen Knox of OPP's Biopesticides & Pollution
20 Prevention Division will briefly discuss OPP's efforts to
21 promote integrated pest management in our nation's
22 schools. OPP is also focusing on reducing the public's

1 and the environment's exposure to pesticides that drift
2 from the application site during or shortly after
3 application.

4 In our last presentation, Jay Ellenberger will
5 provide a summary of how OPP is addressing this area of
6 residential exposure.

7 Following Jay's presentation, we will open the
8 floor for a general discussion of the residential
9 exposure topics presented.

10 MR. WOOG: Hello, everyone. I'm Bill Wooge
11 from the Health Effects Division of the Office of
12 Pesticide Programs, and it is indeed a great pleasure to
13 give you a little overview of the residential risk
14 assessment, and specifically the exposure
15 characterization. Unfortunately, given the time
16 constraint it's going to kind of have to be fast and
17 furious. And I'm going to give you key concepts, but if
18 you get confused, there's always questions. And I'm
19 going to have to do yoga to get this started.

20 Okay. Before I go into the exposure part, I
21 want to ground it in the overall risk picture. And I'm
22 going to take you back 500 years to the Medieval German

1 Scientist Paracelsus, who made the statement the dose
2 makes the poison. And he was right on the money with
3 this, and we still use it today when we do our risk
4 assessments. And we believe that risk to a pesticide is
5 a function of the pesticide's toxicity and a person's
6 exposure to that pesticide.

7 Well, when we do a risk assessment, we use the
8 National Academy of Sciences risk paradigm method, which
9 is in this flow chart in the next slide. Oh, there's
10 Paracelsus. Okay. I'm going to concentrate today more
11 on the exposure side over here. This is the toxicity
12 side, which is pretty well understood. It's the same for
13 dietary, occupational and residential. It's the same
14 battery of toxicity studies that we use for all of these
15 risk assessments.

16 So, as Marcia was saying earlier, sometimes the
17 term residential can be confusing. A better term is
18 non-occupational and non-dietary. And these can be
19 exposures in the home, schools, day care centers, parks,
20 other public settings, institutional settings and such.
21 And here is a great graph that I'm very proud of.

22 **(Laughter)**

1 Okay.

2 MALE SPEAKER: Mine's not moving.

3 **(Laughter)**

4 MR. WOOGÉ: I'm sure everybody is familiar with
5 FQPA. In 1996 Congress passed the Food Quality
6 Protection Act, and it fundamentally changed the way we
7 conduct residential risk assessments. First of all,
8 we're required to do an aggregate risk assessment. Then
9 we're also -- there was increased emphasis on children
10 and vulnerable sub-populations.

11 Okay, let's change gears now. Another key
12 concept is how do we calculate residential exposures.
13 Well, first of all, we use data, and we rely on pesticide
14 specific data whenever possible. If that isn't
15 available, we extrapolate from pesticide specific data.
16 But we have a lot of other tools, including the pesticide
17 handlers exposure database, which Jeff Dawson will talk
18 about more at length tomorrow, but we do use it in our
19 residential assessments, residue dissipation data,
20 transfer coefficients, label and use information, and the
21 last thing on the list which I left is an acronym. SOPs
22 for residential exposure assessments. SOP stands for

1 standard operating procedures.

2 And we rely on these standard operating
3 procedures only when pesticide specific data are not
4 available. We do rely on data first -- as our first --
5 whatever the word is.

6 MS. MULKEY: Approach.

7 MR. WOOG: Approach. These were developed
8 shortly after FQPA as a response to FQPA, and they add
9 consistency and transparency to the risk assessment
10 process. The SOPs contain over 40 individual scenarios,
11 and they've been recently updated and reviewed by EPA's
12 Scientific Advisory Panel in September of '99 -- last
13 year. And we're currently in the process of including
14 all of the SAP's comments, all of -- this also went out
15 for public review, and we're incorporating the public
16 comments, and also other agencies' comments and internal
17 agency's comments. And we're trying to get that out very
18 shortly.

19 Now we rely on the SOPs when we do not have
20 specific -- chemical specific data. But I want to assure
21 everyone that the SOPs are grounded in data as well:
22 compound specific data, published scientific data and

1 generic data. So relying on the SOPs is also a data
2 based approach.

3 Now I want to break up these concepts -- oh. I
4 got out of order. So the scenarios in the residential
5 risk assessment can be a person spraying a liquid
6 pesticide, a person working in a home garden, a person
7 living in a house treated for insects, a toddler crawling
8 on a treated lawn, a person swimming in a swimming pool
9 and such.

10 Okay. Now I want to break it up into manageable
11 chunks. First of all, we think of a person applying a
12 pesticide, and we're concerned with the exposures that
13 that person might come into contact with. And then we're
14 also concerned with the exposures to residues that a
15 person might come in contact after the initial
16 application.

17 So let's go to the first one. And if you think
18 about it, it is applicator focused. But if you really
19 think about it, it's applying a pesticide in your home is
20 very similar to say applying a pesticide in an
21 occupational setting. Using a sprayer in your home is
22 very similar to using -- as a professional using a

1 sprayer. And because of the pesticide database, we have
2 extensive information in order to -- there is
3 parallelism. And we use this information to conduct our
4 applicator exposures.

5 We also recently received information from the
6 Outdoor Residential Exposure Task Force on residential
7 lawn applications which has greatly improved the way we
8 have conducted residential applicator exposures.

9 Okay. The second one -- and the slide didn't
10 work -- is post-application. This is very involved --
11 involves many roots of exposure. And we have to think of
12 the activities as repetitive or simple, such as working
13 in the garden and pulling up, and it's easily monitored
14 and characterized or more complex. And the only thing
15 that I can give you as an example is I have two five year
16 old nephews. And when they're playing on the lawn or
17 playing on the carpet, for every five minutes they're
18 doing something different. And it's very hard to
19 characterize what they're doing. But that's our job as
20 the agency. We do characterize that risk.

21 So --

22 MS. MULKEY: You skipped one.

1 MR. WOOG: Oh, okay. I'll go back. So what
2 does a risk assessor ask? He asks where are my slides.

3 **(Laughter)**

4 First of all, a risk assessor would ask how much
5 residue is in the environment. And that can be
6 determined in the risk assessment by pesticide specific
7 residue data. It is also related to the label use rates.

8 The second question that a risk assessor would
9 ask is what activity is happening in that area, and how
10 much surface area will a person come in contact when
11 doing this activity in a given time period, and what
12 portion of residues will be transferred to the person.

13 And a third and final question would be what is
14 the duration of the activity. Now if you take the two
15 middle bullets there, that comes into a key concept
16 called transfer coefficient, which I'll go into in a
17 little bit.

18 Now I said this was going to be fast and
19 furious, so here it is. This is a dermal exposure
20 example. And you have to think of these risk assessments
21 in kind of a three dimensional way. Because if a child
22 is playing on the lawn, he may be -- or she may be --

1 exposed dermally by inhalation or orally by incidental
2 ingestion. Now one of these might occur, two of these
3 might occur or all three. But we do add these together.
4 And then we also have to add the other third dimension of
5 time. There is short term, intermediate, long term, life
6 time and cancer risk as well. So it helps to think in
7 these -- if you could think of it as a cube or three
8 dimensional.

9 Now this is a dermal example, and this is kind
10 of a simplification of the equation. But each transfer
11 coefficient, which is the -- actually comes down to
12 surface area for a given unit of time, residential --
13 environmental residues and duration of the time spent in
14 the area.

15 Okay. Now when dealing with transfer
16 coefficients -- and these are equally important and I
17 didn't know which one to put first on the slide. But
18 they're equally important. First of all, transfer
19 coefficients are derived from scientific studies.
20 Reproducible, repeatable scientific studies.

21 The second and equally important one is a
22 transfer coefficient is related to the specific activity.

1 There is a transfer coefficient in playing on treated
2 lawns to sitting on lawns. And if you think about it, a
3 transfer coefficient for a child playing on a lawn would
4 be a lot higher than, say, a transfer coefficient for an
5 adult sitting in a lawn chair on that lawn. And that's
6 why the transfer coefficient is specific to the activity.

7 We're very proud of the work that has gone in to
8 develop these residential risk assessments and the
9 exposure assessment characterization. And this work has
10 involved partnerships with other agencies -- USDA, HUD
11 and HHS -- and registrants. As I mentioned earlier, the
12 outdoor residential exposure task force. There is the
13 residential exposure joint venture. We work with user
14 groups and public interest groups. And the whole point
15 of this is to improve and refine the way we do
16 residential risk assessments, and as I speak specifically
17 today, the exposure characterization component.

18 As I said earlier, we're revising the
19 residential standard operating procedures. We went to
20 the Scientific Advisory Panel in September of 1999. And
21 we view this document as a living document, and as we get
22 more information and more data, it will continue to grow

1 and we will continue to refine and improve our risk
2 assessment methodology.

3 There are millions of dollars in research, and
4 actually one of the next speakers, Chris Saint of ORD
5 will discuss the millions of dollars that are being spent
6 in research. It is the fastest developing exposure
7 science, and really our goal is a more refined,
8 non-occupational and non-dietary exposure assessment.

9 And that concludes my comments.

10 MS. MULKEY: Okay.

11 MR. WOOGIE: Are there any questions? I tried to
12 give you key concepts.

13 MALE SPEAKER: Just a quick clarification. The
14 scenarios or the specific activities --

15 MR. WOOGIE: Uh-huh.

16 MALE SPEAKER: How many specific activities are
17 there that you have to have measured for?

18 MR. WOOGIE: Well, the -- Jeff Dawson here is --

19 MALE SPEAKER: Yeah. There are a lot of
20 activities that could go on in residential exposure.
21 There would be hundreds. And they've done that work for
22 all of them? Is that --

1 MR. DAWSON: No. What we've done is we've taken
2 selected ones that we thought would best represent
3 certain segments of the population. And what you're
4 really hitting on is a major research question. So we
5 want to start looking at a variety of different kinds of
6 activities and filling in those blocks.

7 But what we're doing now that we feel is very
8 adequate and protective is to have selected specific
9 exposure data from the literature that we believe
10 represents, let's say, the behavior of a three year old
11 child, or somebody who is, let's say, a youth age kid ten
12 to 12 years old working in a garden, or adults doing
13 whatever on the lawn. So we just pick selected kinds of
14 activities.

15 MALE SPEAKER: Presumably you pick the most
16 conservative for a kind of activity or something, so
17 wrestling on the lawn in a pair of undershorts or
18 something would be --

19 **(Laughter)**

20 FEMALE SPEAKER: Naked.

21 MALE SPEAKER: Well, naked, too. That would be
22 more fun.

1 MR. DAWSON: I think we pick numbers that we
2 feel are protective. The numbers that we -- the kinds of
3 data that we pick, they're all empirical or measured
4 data, and the values that we're using are within the
5 ranges of those data sets. So we believe, you know, that
6 they do represent some segment of the populations out
7 there. So that's how we kind of viewed it.

8 And, you know, we recognize that this is an area
9 that needs more research, and frankly that's where a lot
10 of the research money is being spent. It's a big focus,
11 for example, the ORETF, which is the registrant task
12 force group that is looking at residential exposure, and
13 also frankly a big focus for the Office of Research and
14 Development. So that's an area, you know, where we feel
15 we can make some big improvements over the next few years
16 as well.

17 MALE SPEAKER: Well, then as a follow up
18 question -- and if I'm getting too detailed, cut me off.
19 But how does this get plugged in? How do you know how
20 many times someone wrestles naked on a lawn that has been
21 sprayed three days ago or five? I mean --

22 MR. ELWORTH: I really missed something.

1 **(Laughter)**

2 MALE SPEAKER: You shouldn't leave, Larry.

3 MR. WOOG: You should have seen the slides I
4 took out.

5 MR. ELWORTH: The iterations are unbelievable.
6 And I've just got a sense of how complex this is.

7 MR. DAWSON: It is incredibly complex. I think
8 the way we've handled it so far is -- for example, we've
9 been dealing with the organophosphates and some of the
10 carbamates first. We've done those particular classes of
11 chemicals. So in some ways we haven't had to deal with
12 that issue for those chemicals because, you know, on the
13 day of application, for example, when the kid goes out
14 and plays that day, you know, that's what we're really
15 concerned about in making sure they're not getting too
16 big of a dose on those particular days and then looking
17 at it over the short term.

18 So that kind of probability issue goes away with
19 the kind of risk assessments. But, again, that's another
20 area that is a big area of research for us. And some of
21 the -- I would say the next stage approach is like the
22 calendar based models, for example, that are being

1 developed. CARES is one that is being done through ACPA,
2 and ORD has one called SHEDS. And there are other ones
3 called Calendex. And we funded one called Lifeline.
4 They're all building in a component to address that kind
5 of calendar based probability. So that will be the next
6 phase for us to look at.

7 MALE SPEAKER: Do you have the equivalent of a
8 99.9 percent eater?

9 MR. DAWSON: With those new approaches we will
10 be able to more accurately look at percentiles. With the
11 way we're doing it now with more simplistic means, it's
12 harder for us to characterize specific percentiles like
13 that.

14 MS. MULKEY: It might help to put it in
15 perspective. Except for OPP's dietary risk assessments
16 and a few super fund risk assessments -- I think I'm
17 right -- that there is almost no probablistic risk
18 assessment going on in the agency. Almost all of the
19 agency's risk assessments are what are called
20 deterministic, which is you take a scenario and you say -
21 - and what you want is a reasonable high end. That's the
22 magic word under the risk assessment paradigm. So that's

1 what we try to have.

2 And you may remember the big debate over 99.9.
3 We pointed out that the reasonable high end for
4 deterministic at 95 percentile was actually more
5 protective than the 99.9 probabilistic. And that sort of
6 gives you some flavor. So I don't know that this is 95th
7 percentile or even -- but it's the deterministic. I
8 don't know. I probably confused you more than I helped.

9 **(Laughter)**

10 MALE SPEAKER: Well, you tried. That's all that
11 counts.

12 MS. MULKEY: We have the 20 minutes and we can
13 move onto the next one. We're on track here. Thank you,
14 Jeff.

15 MR. DAWSON: You're welcome.

16 MR. WOOGIE: I hope I didn't confuse everyone too
17 much. That's Kathy's job.

18 MS. DAVIS: I'm Kathy Davis. I am with the
19 Biological & Economic Analysis Division. And I'm going
20 to cover real quickly use related information. You'll
21 remember, I'm sure, back in slide two of Bill's
22 presentation he mentioned label and use information as

1 some of the components that go into exposure assessments.
2 And our first stop on that trend is to take a look at the
3 label, which Bill mentioned.

4 The label is going to have things like the use
5 sites on it. It's going to have application rates. It's
6 going to talk about formulation that is important to the
7 risk assessment. It may include things like the number
8 of applications for a residential use, or it may not. It
9 may include things about application method and the type
10 of equipment that you might use in applying that
11 pesticide in and around your home. And those are all
12 very important pieces of information for the risk
13 assessment.

14 I want to remind everybody that there is quite a
15 range of the number of labels involved in this kind of
16 development of information from these labels. And it can
17 be really simple. It can be one product or one active
18 ingredient that we have to assess, or it might be up to a
19 thousand products that have these homeowner uses on them
20 that we have to put together and pass to the Risk
21 Assessment Division. So sometimes it's not as
22 straightforward as it might seem. But that's our first

1 stop.

2 On the next slide, we go to the use related
3 information. And this is more the quantitative and
4 qualitative sorts of information that we get from other
5 databases. On the quantitative side the kinds of
6 information we might get are things like how much of a
7 particular active ingredient is actually applied to a
8 residential use scenario. Now the pounds of active
9 ingredient may not be used directly in the risk
10 assessment, but it provides a measure of how much of the
11 relative volume of use is going on compared to other
12 chemicals. So it sort of puts it in a series for us.

13 The next one is average use rates, and that's a
14 much discussed term, average. In this particular
15 scenario I would say that average is reported average use
16 rates. Our sources of data on residential use are not as
17 robust as they are for agricultural use. And in some of
18 these reports, we actually do get average use rate. We
19 don't have a whole lot of definition about exactly how
20 that is calculated, and oftentimes it's a range which
21 doesn't help us out a whole lot. And sometimes there are
22 sources -- the information is provided on a regional

1 basis, which can be very important when you're
2 understanding the exposures.

3 We also get information about percent area
4 treated, so we might know approximately how many homes
5 might be treated across the United States, how many lawns
6 and what size of lawns. Those kinds of pieces we might
7 get from these sources.

8 On the qualitative side, the questions that
9 we're looking at are how and where is the compound
10 actually applied and what is it intended to control. And
11 an excellent example of that is a lawn application where
12 you're going after managing fire ants, where there is a
13 spot treatment, versus a white grub control that you're
14 going to broadcast across your entire lawn. So those
15 fellows wrestling are more likely to encounter, we hope,
16 the application for the white grub as opposed to the fire
17 ant treatment.

18 (Laughter)

19 MS. MULKEY: For several reasons.

20 (Laughter)

21 MS. DAVIS: Many. Very many. Then we would
22 like to talk a little bit about how we characterize the

1 use related information for risk assessments. So we
2 thought we would walk you through an example of white
3 grub control, because we know that's a common problem.

4 Starting with label information, we identify
5 use instructions that might be like application rates,
6 the application equipment and maybe some regional
7 specific information about timing. When to expect white
8 grubs to be around and big enough for you to treat, but
9 small enough for you to control. This gives us sort of a
10 sense of where the application is going on and how much.
11 The size of it.

12 For the risk assessment side of the program,
13 understanding the actual products used is of interest.
14 Average or more typical -- depends on what you're looking
15 at -- application rates might be considered and whether
16 there are differences occurring between a homeowner use
17 versus a professional application. So those kinds of
18 pieces of information are important.

19 And some of our information actually does exist
20 in our sources, such as with Kline and Company, one of
21 our proprietary data sources. And they provide average -
22 - they report average product use rates broken out by

1 homeowner and PCO. So that's pretty valuable.

2 Questions might also arise about whether or not
3 differences in usage occur based on geographic location.
4 Regional use data is provided by some of our proprietary
5 sources, and we have some state and local information,
6 some surveys. They're very sporadic in nature, so we'll
7 have one from 1992 in Michigan, and one from 1996 in
8 Wisconsin. Maybe one or two from Arizona.

9 So you can see that it is relatively difficult
10 to put these together and understand the whole picture.
11 It's very limited. So sometimes we're asked to try to
12 extrapolate and infer from the available information, and
13 that, of course, makes us a little bit less confident in
14 the information that we pass to the risk assessment
15 division.

16 For some of the more obscure, non-agricultural
17 uses, things like crack and crevice treatment, pet
18 treatments and uses in schools or in public areas, our
19 sources of data are less specific. These data might be
20 pieced together from one or more of the sources that we
21 have. But our confidence in those, again, is not as high
22 as we would like it to be.

1 Some of the challenges associated with the
2 non-agricultural data sources, there is a limited number
3 of sources. You'll hear me say that again and again.
4 Some of the data are proprietary, so they're not
5 releasable to the general public. There is limited time
6 series data, so trends are very difficult to ascertain.
7 Sample sizes can be very small, and that makes us very --
8 somewhat uncomfortable with how reliable that data is.

9 It's very difficult to collect this data, and
10 I'm sure that CSMA, if somebody is here from them, with
11 the residential exposure joint venture would speak to the
12 -- they're doing a survey right now and it's quite
13 expensive and it's difficult. So we're understanding of
14 it. We just would love to have better data. There is
15 limited detail in --

16 **(END OF TAPE THREE, SIDE B)**

17 MS. DAVIS: Crack and crevice treatments are
18 rarely broken out.

19 My next slide gives you a flavor, not an
20 exhaustive list of the data sources that we have for
21 non-agricultural information. And we look forward to
22 whatever additional information. We know that there are

1 some surveys going on and some that I think are wrapping
2 up pretty shortly, and we're looking forward to hearing
3 about those and what kind of information they can
4 provide.

5 Are there any questions?

6 MS. MULKEY: Thank you. I think we can move on,
7 then.

8 MR. SAINT: Hi. I'm Chris Saint from EPA's
9 Office of Research & Development. And I would like to
10 discuss the ORD's various programs related to residential
11 pesticide exposure assessment. First, some context and a
12 few definitions so that at least I'm clear about what I'm
13 talking about.

14 Human exposure to an agent can be defined as a
15 process by which the human comes into contact with that
16 agent. It's a relatively simple definition. In a human
17 exposure assessment, sources are usually considered to be
18 environmental media which contain the agent of interest,
19 such as a pesticide. And that includes air, water, food
20 and beverage, surfaces, soil and other things that are --
21 well, those are examples of the kinds of things that we
22 consider sources.

1 Exposure can occur via various pathways. You've
2 heard that term before. In terms of the research we're
3 doing, we consider that there are three basic pathways:
4 inhalation, dermal contact and ingestion. Ingestion can
5 be either dietary or non-dietary. Today we're going to
6 talk mostly about the non-dietary.

7 Besides determining simple exposure or contact
8 with a chemical, we're also interested in determining
9 what the internal dose is for risk assessment purposes.
10 Therefore, we wish to be able to predict these internal
11 concentrations by understanding the processes that govern
12 the distribution of chemicals in the body. And for those
13 of you who don't know, this is usually called
14 pharmacokinetics. So I'm going to talk about all of
15 these things today and some of the research that we're
16 doing related to these.

17 Okay. The ORD program in residential exposure
18 has three major objectives. First, it's to identify
19 chemicals, pathways and activities that represent the
20 highest potential for human exposure. Secondly, we wish
21 to determine the factors that influence these exposures,
22 both the frequency and duration of them. Factors include

1 human behavior, the chemical stability of the compound in
2 the various environmental media, movement of chemicals in
3 and around the body and human physiology. Thirdly, the
4 program is aimed at developing methods for quantifying
5 both aggregate and cumulative exposures to pesticides and
6 other chemicals. And dose.

7 Aggregate has been discussed before, but I'll
8 reiterate. It means exposure via multiple pathways. So
9 what we would term total human exposure. And cumulative
10 means in the FQPA terms and in other places exposure to
11 multiple chemicals or stresses.

12 Our approach towards this rather complex issue
13 is threefold. We are sponsoring and conducting a series
14 of exposure field studies aimed at collecting data on
15 exposure and related to exposure. And that includes
16 chemical concentrations, human activities and related
17 data. and analysis of that data in terms of assessments
18 or the development of various factors for use in
19 assessments.

20 We also have a number of studies looking at the
21 exposure factor in pathway analysis. These are usually
22 experimental studies and involve sometimes methods

1 development.

2 The third major area is exposure modeling. This
3 is a broad sense of modeling. Not simple -- not just
4 mathematical deterministic models, but statistical
5 approaches, metdata data analysis, relational database
6 development and various statistical techniques.

7 In terms of field studies, we have -- the major
8 emphasis of the field studies is currently on children's
9 exposure to pesticides and a number of other toxic
10 chemicals. However, the first study I'll discuss here is
11 the National Human Exposure Assessment Survey, which has
12 currently just completed three pilot studies and are
13 essentially surveys of exposure in a specified
14 population. And I'll discuss all of these in a little
15 more detail in a minute.

16 A second major study is a new one which we've
17 recently initiated called the Children's Total Exposure
18 to Persistent Pesticides. It also includes some
19 non-persistent pesticides as well. And it's a similar
20 survey, but focused on children -- mainly preschool
21 children ages 18 months to three years.

22 The third group of studies is a series of

1 children's exposure studies on organophosphate
2 pesticides, which was funded through the Science to
3 Achieve Results or STAR program, which is a new EPA
4 grants program. These are essentially surveys of
5 exposure of children in farm and urban communities, and
6 the age ranges on these are mostly two to six years old.

7 Thirdly, we recently in a joint venture with
8 NIEHS, the National Institute of Environmental Health
9 Sciences, funded a series of children's research centers,
10 three of which are targeting pesticide exposures and
11 effects.

12 The first field study -- major field study was
13 Nexus. As I said, these were pilot studies intended to
14 design a national survey which may one day be
15 implemented. They are population based. It includes two
16 population based exposure studies in Arizona and the
17 midwest, and a two year long longitudinal study which
18 involved multiple samples over time. These studies are
19 currently -- the study is currently developing a set of
20 interactive databases, including both questionnaire and
21 chemical measurement data, and these will be up on the
22 web sometime this year. Up on the Internet.

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1 The second is the so-called C-TECH study, a
2 children's pesticide study. It's a survey of 300
3 preschool children in six rural and urban counties in
4 Ohio and North Carolina. It will measure concentrations
5 in environmental media and biological samples, mostly
6 blood and urine, and will also collect location and
7 activity information. We will also video tape a subset
8 of these children to address -- I think it was your
9 question about how are you going to get all this
10 information on this stuff. Well, we're actually going to
11 take pictures of them and try and figure it out. There
12 are several studies which are video taping, so hopefully
13 we're going to have quite a library of them soon.

14 I talked about some of those techniques.

15 MALE SPEAKER: Excuse me. You're going to video
16 tape what?

17 MR. SAINT: We're going to video tape the
18 children as they're playing around the home and in the
19 day care centers. We have some --

20 MALE SPEAKER: Be careful.

21 **(Laughter)**

22 MR. SAINT: -- development projects.

1 MALE SPEAKER: Are they not going to notice that
2 you're video taping them?

3 MR. SAINT: Well, that's an issue.

4 MALE SPEAKER: You can video tape my kids.

5 MR. SAINT: Yeah. I'm going to talk about that
6 a little bit more in just a minute.

7 **(Laughter)**

8 MALE SPEAKER: That's the one that's in college.

9 **(Laughter)**

10 MR. SAINT: Well, as a quick aside, yeah, we did
11 actually have a two year old tear the camera apart.

12 **(Laughter)**

13 But I think we've solved that problem. Another
14 set of studies is the STAR grants. These were funded in
15 1996 and are in the final stages of completion. They are
16 a series of studies along the U.S./Mexican border in
17 California, Arizona and Texas that are looking at
18 children's exposures mostly in farm worker communities.
19 There is a study looking at the exposure of urban and
20 rural children in Minnesota to pesticides, which is
21 linked to the Nexus study in the midwest. And we hope to
22 do some comparisons of children versus adult exposures.

1 And there is a longitudinal study of children's
2 exposure to OP pesticides in the Yakima Valley in
3 Washington state. And a school based study of complex
4 exposures in children which is looking at multiple
5 chemicals, including pesticides, has a longitudinal
6 component and is jointly implemented with the Minnesota
7 Department of Health. It includes pesticides, PH's,
8 volatile organics and metals.

9 And lastly, there are three research centers
10 which have exposure components. One at the University of
11 Washington, which is investigating the take home pathway
12 in a farm worker community. Pesticides being brought
13 home by the farm worker into the home. The exposure
14 assessment involves a survey of children in the Yakima
15 Valley and the collection of exposure related data.

16 There is a study at the University of California
17 at Berkeley in the Salinas Valley, which is looking at
18 exposures in another farm worker community. They are
19 actually cooperating in their methodologies between
20 Washington and Berkeley. Berkeley is going to
21 characterize OP levels in urine, determine OP levels in
22 and around the home, and describe exposure from behavior

1 in children using video tapes.

2 There is a third study at Mt. Sinai, which is in
3 an urban community in New York City. It's studying
4 pesticide exposures and PCB exposures in an urban
5 population.

6 All of these centers also have an epidemiology
7 component and an intervention study, which is looking at
8 methods for reducing exposures. But I'm not going to
9 talk too much about those today.

10 Okay. Another major effort besides the field
11 studies looks at exposure factors in pathway analyses,
12 and there is a whole series of efforts going on in that
13 area. The first one is the consolidated human activity
14 database, which is an effort to consolidate data from a
15 series of human activity surveys which are essentially
16 time, location and activity information collected through
17 telephone and other questionnaires and surveys. It
18 contains about 17,000 person days of data.

19 To answer an earlier question about how many of
20 those scenarios you have, in this one there are about
21 14,000 of them. There are 140 activity codes and there
22 are 114 location codes which can be combined in any one

1 of those combinations. It provides time, location and
2 activity information, such as eating in the kitchen for
3 30 minutes, as an average, or there are distributional
4 data in there as well.

5 So we feel it's going to be a very useful tool
6 for exposure assessments in the future to develop
7 scenarios and interrelational databases. It is also
8 currently available on the web and the web site is up
9 there. And I think I can get some copies of this.

10 MALE SPEAKER: Can I ask one quick question?
11 How is that information collected to go in that database/

12 MR. SAINT: Telephone and questionnaires and
13 surveys, but it's basically questionnaire data. It's
14 personal recall. You know, what did you do today kind of
15 thing.

16 MS. MULKEY: Like USDA dietary.

17 MR. SAINT: It's like the dietary survey.
18 Another effort is looking at non-dietary ingestion. We
19 are trying through video taping and other techniques to
20 quantify a series of activities related to exposure, such
21 as surface to skin contact, skin to object contact, skin
22 to mouth, object to mouth, surface to mouth and things

1 like this. Essentially the aim of it is to develop a
2 series of transfer coefficients for a lot of these
3 activities.

4 In addition to that, we're also doing some
5 gastrointestinal absorption modeling, which will help us
6 to extrapolate that to dose.

7 The dermal contact research is essentially
8 looking at kind of activity -- using activity data to
9 predict dermal exposures through whole body dose
10 symmetry. Wearing cloth suits and doing certain
11 activities, taking the suit off, cutting them up and
12 analyzing the data, trying to see where this stuff goes.
13 We also are looking at florescent tracer analysis using
14 the same techniques, conducting a series of surface
15 sampling in and around the home, looking at where the
16 pesticide goes after certain types of treatments, and
17 video taping of preschool children again to look at
18 activities that would lead to dermal contact.

19 The idea is to develop protocols for collecting
20 transfer coefficients under certain scenarios, or
21 actually publishing certain transfer coefficients, and
22 developing dermal transfer coefficients for children.

1 MALE SPEAKER: Chris?

2 MR. SAINT: Yeah.

3 MALE SPEAKER: I have a question. What do you
4 do with the video data? Are you like transcribing it in
5 some manner?

6 MR. SAINT: Yeah. Yeah. There was a technique
7 developed by Jim Lackey at Stanford to -- well, Jim
8 Lackey and Valarie Dartarian, actually, who now works for
9 us. It involves a very laborious screen based touch --
10 touch screen based system where they are quantifying
11 particular activities. They're not taking the whole run
12 of the video taping and timing every single thing that
13 happens. There is a battery of about, I think, 80
14 activities that they're trying to capture.

15 And they run it on slow motion when one occurs.
16 There is a time index thing. They push it. When it
17 stops, they push it again, and then it's automatically
18 time indexed in there. It is rather laborious and it
19 burns out a lot of graduate students.

20 **(Laughter)**

21 MALE SPEAKER: That's what they're for.

22 MR. SAINT: Pardon me?

1 MALE SPEAKER: That's what they're for. I was
2 one and I did it.

3 MALE SPEAKER: It sounds like an Andy Warhol
4 movie to me, you know.

5 MR. SAINT: Pardon me?

6 MALE SPEAKER: it sounds like an --

7 MR. SAINT: Not having ever seen any Andy Warhol
8 movies, I don't know what you're talking about.

9 MALE SPEAKER: Well, there's 12 hours and the
10 guy's sleeping.

11 MR. SAINT: Oh.

12 **(Laughter)**

13 There is another effort we have ongoing looking
14 at exposure via pets. There are two small projects. One
15 is looking at, you know, is there a potential for pets to
16 track in pesticides from lawns after lawn care
17 treatments. It's a very small project. They're just
18 trying to determine some preliminary data to see if it's
19 worth doing anything more on.

20 There is also a similar -- my particular office
21 is funding a study looking at the transfer from pet fur
22 onto hands -- children's hands. And that study is just

1 about completed, and I think has published a couple of
2 papers, which she hasn't sent me yet, which I'm kind of
3 annoyed about.

4 MALE SPEAKER: Look them up.

5 MR. SAINT: Well, the trouble with grants is you
6 have no hold over them.

7 A major effort in the agency -- in ORD is the
8 Exposure Factors Handbook, which some of you may have run
9 across. This essentially is trying to develop
10 distributional and other types of data for various
11 factors using exposure assessments, particularly
12 physiological factors, physical factors and some chemical
13 data involving transport, FAPE and those kinds of things.
14 You know, an example would be the dreaded soil intake by
15 children and that kind of thing, as far as a big
16 controversy. There are currently three volumes of the
17 Handbook up on the Internet, and we are currently working
18 on developing one for children.

19 And lastly, there is a small project going on in
20 one of our labs in North Carolina looking at pesticide
21 use patterns -- from what I know from what Kathy talked
22 about -- but mostly trying to get all the data from our

1 various questionnaires that we do in our field studies
2 and some other studies and trying to pull all of that
3 together so that we can hand it off to OPP.

4 And lastly, we have a program in exposure
5 modeling, one of which has already been mentioned, the
6 SHEDS model. These are mostly what we call data rich
7 models or relational databases. We have three main
8 efforts. One is new exposure models, one is looking at a
9 modeling framework called Mentor, and the third is kind
10 of a series of small projects looking at modeling
11 methodologies.

12 SHEDS is the main effort right now on pesticide
13 modeling. And it uses a two stage Monte Carlo, which is
14 a statistical technique, for sampling exposure data from
15 various databases and combining them. The nice thing
16 about the technique is it produces distributions as
17 opposed to point estimates, and it combines
18 distributional data as opposed to combining point
19 estimates as a deterministic model would. It combines
20 demographic human activity and concentration data. It
21 predicts distributions of total personal exposure for a
22 particular population, so you get a distribution for a

1 population.

2 I had some really nice pictures of the
3 distributions, but I don't have time -- I didn't have
4 time to show them all. But that is going to be published
5 soon, so you'll be able to see some of those for
6 yourself.

7 The second area is looking at dose estimating
8 models, which are essentially what I talked about before
9 as the pharmacokinetic models. This is very difficult,
10 because, you know, basically you have to have a PK model
11 -- a pharmacokinetic model -- for every chemical. And
12 what we're trying to do is to say, okay, can we somehow
13 simplify that to try and develop tools for risk
14 assessment to use instead of having to go out and collect
15 all the animal data necessary to do a reasonably reliable
16 pharmacokinetic model, and then have the problems of
17 extrapolation to humans, and then de-extrapolating to the
18 children. So it's an effort that is really looking at
19 all the incremental things we can do to make it easier.

20 One area that is not specifically related to
21 pesticides but does have some, I think, relevance is this
22 idea of developing a modeling framework. It is kind of a

1 tool that risk assessors and others can use to go and
2 find models and tools that can be used to build models.
3 Kind of a clearinghouse for modeling to help people who
4 want to develop certain scenarios -- a model for a
5 particular scenario that doesn't exist yet, and if there
6 is one out there, to help them use it in a consistent
7 framework. And if you want to, I can tell you more about
8 that at some time if you want to give me a call.

9 Lastly, there is a large series of projects
10 looking at modeling methodology. This includes new
11 statistical techniques. We're looking at improvements to
12 Monte Carlo sampling to try and make it more robust.
13 We're looking at techniques such as bootstrapping and
14 other statistical techniques. Also, looking at model
15 validation. What is the best use of the data we're
16 collecting in our field studies to help us understand how
17 the models work. We're looking at new techniques for
18 understanding uncertainty and variability to understand
19 how well our models are working, and looking at
20 techniques for packaging the model better so that they
21 are more easy to use, similar to Mentor.

22 And that's about it. Any more questions?

1 MS. MULKEY: Well, we do have -- we're going to
2 go a whole hour.

3 MR. SAINT: Okay, that's great.

4 MS. MULKEY: So unless there are some clarifying
5 questions -- believe it or not, despite the volume of
6 this material, we still have about 12 minutes for these
7 brief, additional snippets. And we will take our break
8 before the discussion. It's clear -- and I'm also going
9 to separate you two.

10 MALE SPEAKER: Bill and Warren are being quiet.

11 MALE SPEAKER: I have a question.

12 MS. MULKEY: Yes.

13 MALE SPEAKER: Is it possible to get copies of
14 this presentation?

15 MS. MULKEY: Margie? Yes, we'll arrange to get
16 you slides. We're arrange to get you that. Okay.
17 Claire?

18 MS. GESALMAN: All right. I hope everybody is
19 still hanging in there. We have been talking a lot about
20 the scientific aspects of exposure to pesticides and
21 assessing exposures and so on. And I would like to talk
22 about something completely different.

1 We're trying to help educate people to reduce
2 exposures to pesticides, in addition to our work in
3 assessing what they are exposed to. And the program that
4 I'm working with to do this is something we're calling
5 the Urban Initiative, which doesn't necessarily have only
6 to do with urban areas, but is mainly non-agricultural
7 kinds of things.

8 This program originated in 1998 to help increase
9 the attention to pesticide use in the non-traditional
10 kinds of settings. You know, the fact that a lot of
11 pesticides are used in homes and that sort of thing. It
12 includes both enforcement of increased inspection
13 activity in urban areas to retailers as well as other
14 kinds of things, and the education and outreach kinds of
15 things that I'm involved in.

16 Basically the situation as it stands is that
17 people don't really like pests, and they want to control
18 them, particularly in their homes. But they've also for
19 one reason or another misused pesticides in a number of
20 situations. For example, there were some more widely
21 publicized incidents involving methyl parathion several
22 years ago that EPA spent a lot of time and money cleaning

1 up. We have problems in some urban areas with something
2 called insecticidal chalk, which is dangerous because it
3 looks a lot like blackboard chalk and has no child
4 resistant packaging and it's not registered. And some
5 other pesticides that have been used in -- used illegally
6 and not for their registered use.

7 Some of the causes of misuse of pesticides are
8 that sometimes people can't afford appropriate pest
9 control services, or they don't have the kind of
10 information they need to make appropriate choices. We
11 have unscrupulous pesticide applicators who have offered
12 low prices and big guarantees in terms of the
13 effectiveness of their techniques, and people may not be
14 aware of what's really causing their pest problem, that
15 they can do some simple things to solve it themselves.

16 So to reduce this kind of problem, we're trying
17 to do a number of things. We're trying to inform people
18 about the dangers to their families of misusing
19 pesticides. We've done workshops in some regions, doing
20 outreach to community groups and that sort of thing.
21 There have been a lot of articles in magazines and health
22 provider newsletters and that sort of thing. Posters in

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1 public places.

2 We have been informing the public about sources
3 of information. For example, we have some truck ads
4 going on right now that are designed to promote the
5 National Pesticide Telecommunications Network. And I
6 have a picture of one of those a little later on. We're
7 developing educational materials in addition to the ones
8 that we already have on appropriate methods of pest
9 control. And I think probably pretty much everybody
10 probably knows the Citizens Guide, which has been around
11 for quite a few years. We're right now developing some
12 handout types of sheets based on this information that
13 are a little bit easier to use if you want just a small
14 bit of this information.

15 We recently did an activity book for kids -- I
16 think you may have picked this up out front -- and a
17 small poster that gives some pest control tips for around
18 your home or in your home situation. And we have a few
19 other things that are going on that we're trying to do in
20 that line as well.

21 We're educating various people that are not
22 necessarily the users of pesticides directly about their

1 roles in preventing misuse. We're developing a tool kit
2 about these materials that will be available to some of
3 our partners such as the Extension Service and states and
4 others who are active in this effort.

5 There are several programs within OPP that
6 relate to trying to reduce pesticide exposures. The
7 Urban Initiative, which I've been talking about, involves
8 a lot of education and outreach and a communication
9 strategy that we've developed. We're coordinating with
10 the regions and trying to incorporate the work that
11 they're doing. We've done a lot of grants to partner
12 organizations through the regions.

13 The Consumer Labeling Initiative, which most of
14 you probably have heard of, has the Read the Label First
15 campaign with several brochures and a big display and
16 other types of things that they're doing. That's another
17 heavily -- a heavy involvement of partners in terms of
18 getting the message out.

19 The truck ad is also -- that's going across the
20 country in certain areas right now. It's actually going
21 to be here on Monday, if anybody is in the D.C. area.
22 It's going to be at the different EPA buildings on Monday

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1 at different times. So if anybody is interested, we can
2 let you know what time that's going to be. But that's
3 going to be going in different cities. It's also in
4 Spanish on some of the trucks. And they either have or
5 are going to do some small, like delivery truck type of
6 trucks, as well as the over the road truck that this is
7 an example of.

8 And finally, I'll just mention the IPM in
9 Schools program. We published a pamphlet in 1993 called
10 Pest Control in the School Environment Adopting IPM. And
11 now the next person on the agenda is going to talk a
12 little bit more about that, because there is sort of an
13 increased emphasis on that aspect of controlling -- or
14 reducing exposure to pesticides.

15 MS. MULKEY: All right. Kathleen and Jay, you
16 have to share about six minutes. So I'm sure you'll
17 figure out how to do that.

18 MS. KNOX: Okay. Sharing isn't really a
19 problem. I don't have overheads, and Claire just gave me
20 a good head start into my presentation.

21 Integrated pest management in schools is not a
22 new activity at EPA. The brochure did come out in 1993.

1 We've issued over a million copies of it since then, and
2 the information in it is still relevant. In addition,
3 many of the regional offices are very involved with their
4 states and with local school districts on integrated pest
5 management activities. In addition, our voluntary
6 Pesticide Environmental Stewardship program has a lot of
7 partners who have worked on integrated pest management in
8 schools issues over the years, and in fact has some
9 really good success stories.

10 Because of all these various activities going on
11 in EPA, a little over a year ago we formed a work group
12 in the Office of Pesticide Programs that included
13 regional participation. The topic wasn't really limited
14 to IPM in schools. It was -- we tried to look at it more
15 broadly as a pesticides in schools issue, looking at data
16 needs, looking at data we had from states and looking at
17 how could we improve the exposure data, etc.

18 The outcome -- and we looked at it not as
19 reinventing anything, but trying to identify existing
20 materials, existing activities and trying to do some
21 coordination. The work group consists of people from
22 most of the divisions that had worked with pesticides and

1 several of the regions. In addition, we work with other
2 programs in the agency that are working on school
3 projects. We've had contacts with the Department of
4 Education and various state components.

5 Our main purpose really is to try and identify
6 issues, try to coordinate and facilitate information
7 transfer, and like I said, collaborating with other EPA
8 projects. One of the things -- we did get a little bit
9 of budget money in fiscal 2000. We've put a small amount
10 to looking really at the feasibility of data collection.
11 It is a small amount, and we know that actual data
12 collection of pesticide use data in schools would cost a
13 lot. It would take time. It would be difficult to
14 design, etc.

15 So we're really doing sort of a feasibility of a
16 feasibility study, looking at potential surveys --
17 ongoing surveys from the Department of Education or other
18 kinds of things to see whether it would be possible to
19 get that kind of data in a cost effective, timely way.
20 In addition, we've drafted up a communication strategy.
21 Again, we don't want to reinvent materials that already
22 work. But part of it is what is it that -- what role can

1 we play.

2 Most importantly, though, we've put out a
3 request for proposals. The Federal Register notice came
4 out, I believe, two weeks ago. The proposals are due in
5 by December 15th to actually try and identify and fund a
6 pilot technical resource center for IPM in schools. Our
7 vision is that it would be a regional center. It would
8 be there to -- again, not reinvent information. But try
9 and coordinate and pull together existing information and
10 help the states within that region to try and develop
11 programs, etc.

12 So we're quite anxious to see what kinds of
13 proposals we get in. We expect to get probably a dozen
14 or more. The process then will be review of the
15 proposals, face to face interviews and then final
16 proposals.

17 So that's basically what we're up to right now.
18 Like I said, we're just trying to build networks and get
19 the right people together and be aware of what's going
20 on.

21 MALE SPEAKER: Can you tell us the magnitude of
22 that -- of the grant or the money that is available?

1 MS. KNOX: We have \$100,000.

2 MALE SPEAKER: And how many regions?

3 MS. KNOX: This is a pilot. It's just one.

4 MALE SPEAKER: Oh.

5 MS. KNOX: Yeah. We really just want to figure
6 out if this would be a valuable kind of activity,
7 something that would really have some return on the
8 investment and if it's the direction we want to go in in
9 terms of further investment. It would never be that we
10 would anticipate funding these things forever. The idea
11 is get things up and running. Ultimately, we would like
12 it if the school districts all got sort of into fully IPM
13 kind of programs and didn't need that kind of center any
14 more.

15 MS. MULKEY: Okay. Jay?

16 MR. ELLENBERGER: I'm Jay Ellenberger, OPP's
17 lead for pesticides spray drift issues over the last few
18 years. I thought I would use this opportunity to tell
19 you about a few initiatives that are happening in
20 relation to residential exposures.

21 As we all know, public and as well as EPA have a
22 great deal of interest in pesticide exposures from

1 pesticide spray drift from all types of applications,
2 whether they be aerial application, ground application
3 and in fact backyard and home and garden applications.
4 Each year regulatory enforcement agencies from the states
5 receive thousands of complaints that they investigate
6 from all different kinds of application methods, all
7 different pesticide types and uses and a wide range of
8 effects from phyto toxicity to human toxicity to
9 environmental problems.

10 And I think this is becoming exacerbated as the
11 residential areas are moving in more and more each year
12 to the agricultural areas. Over the last decade through
13 a series of DCIs -- data call in notices -- that OPP
14 issued to registrants, a flood of data have come in. We
15 have a very robust set of studies now that characterizes
16 pesticides, spray drift, how it happens, why it happens
17 and what are the most critical variables that influence
18 drift for each of the major application methods.

19 We also have all the published literature, as
20 well as some European databases. So we have a very
21 robust set of information that allows our scientists,
22 risk assessors and exposure assessors to have a much

1 better characterization for any pesticide that will be
2 used, particularly in the agricultural setting, and how
3 that application method may or may not drift to
4 particular sites and sensitive sites, such as residential
5 areas and people's backyards, as well as other
6 neighboring crops or sensitive environmental areas. So
7 this robust data set now can be used to infer, if you
8 will, what drift deposition may occur at any site
9 downwind from an application site. We use that
10 information in risk assessments.

11 An additional initiative that OPP is involved in
12 is drafting a new PR notice and a Federal Register notice
13 of availability. The PR notice to provide registrants
14 with guidance for new product labeling that we think will
15 be a great improvement over current product labeling that
16 will provide applicators with a much more comprehensive
17 set of instructions of what they should do or must do to
18 control drift from the off target sites.

19 We think that will raise the bar, if you will,
20 of applicator behavior, and a better use of developing
21 technology to really get at many of the problems relating
22 to drift. We're hoping that that PR notice will go out

1 soon. It will be a draft PR notice for public comment.
2 So we look forward to comments that you would file with
3 us, as well as other folks.

4 And then lastly, OPP continues with its support,
5 financial and otherwise, with continuing education of
6 applicators about drift, how it happens, why it happens
7 and what they can do to control drift. For the C&P
8 programs, working directly with aerial applicators,
9 ground applicators and so on and so forth.

10 With all of these initiatives, the bottom line
11 is to significantly reduce drift, the number of
12 incidents, the amount of drift, bring way down the
13 exposures to people and the environment.

14 Thank you.

15 MS. MULKEY: All right. By my calculation, if
16 we take a 15 minute break and are really, really back in
17 our seats, you can still have a full hour discussion and
18 we can finish our business at the time. Use a little bit
19 of this 15 minutes to think about how you want to frame
20 up a discussion of these issues. There is an incredible
21 amount of material that you've been hit with, and we're
22 eager to hear about your reactions, your questions, your

1 concerns and where you see the gaps in what we've
2 demonstrated and so forth.

3 So enjoy your break and get back on time.

4 **(Whereupon, a brief recess was**
5 **taken.)**

6 MS. MULKEY: -- speakers and we've asked Donna
7 Davis and Mike Metzger, who are in our Health Effects
8 Division and have supervisory responsibility for a lot of
9 the work -- the risk assessment work you heard about, to
10 join us at the table, too, so that we can maximize our
11 capacity to answer questions. But we're eager to hear
12 not only your questions, but your comments, your
13 perspective, your suggestions, your complaints and your
14 compliments, etc.

15 We must really harass Bob, if he doesn't come
16 back, since it's his topic, right. Okay. Larry, do you
17 want to lead us off?

18 MR. ELWORTH: Well, I had a couple of questions.
19 One of them is -- and I understand that this is going to
20 be answered. That was an impressive set of researches
21 being done that people pointed to. What is the public
22 investment in that research?

1 MS. MULKEY: Federal dollars?

2 MR. ELWORTH: Federal dollars.

3 MALE SPEAKER: Meaning how much money did we
4 spend?

5 MR. ELWORTH: What? I beg your pardon?

6 MALE SPEAKER: I don't know off the top of my
7 head.

8 MR. ELWORTH: It would just be -- I mean, it
9 would be interesting to know.

10 MALE SPEAKER: It's spread across three -- that
11 particular program is spread across three different labs.
12 Well, a lab and two centers in the Office of Research &
13 Development. I can tell you what the grants program is
14 spending on it. The grants program has an investment of
15 approximately eight million dollars. I think the lab
16 program has got to be around the same, if not a little
17 bit more.

18 MS. MULKEY: There are -- I have seen a budget
19 breakdown of what portion of ORD monies is FQPA, for
20 example, which, of course, is not just this work.

21 MR. ELWORTH: right.

22 MS. MULKEY: But all sorts of other work. So I

1 think Joe could help you after he gets here. We'll see
2 if he knows anything off the top of his head. But if
3 not, we can help you get some data on that.

4 MR. ELWORTH: Okay. That would be interesting.

5 MALE SPEAKER: Certainly for 2000 there is
6 numbers available.

7 MS. MULKEY: Yeah, right, on an annual basis.

8 MR. ELWORTH: Because there's obviously the cost
9 of developing and maintaining a database and things like
10 that.

11 MS. MULKEY: Right.

12 MR. ELWORTH: Which would be in the grants
13 program.

14 MALE SPEAKER: The Nexus database, for example,
15 is funded at about \$800,000 to get it up and running and
16 maintaining it.

17 MR. ELWORTH: And the other question that comes
18 to mind, with all those different databases, how are you
19 coordinating the quality of data and things like that?

20 MALE SPEAKER: There was a program developed in
21 EPA called IAMS, which is -- I can't remember what it
22 stands for. But that's their job. They are -- they are

1 kind of the data police there looking at not so much
2 making sure the data is of a particular quality. But
3 making sure we know what the quality is.

4 MR. ELWORTH: Right. Right.

5 MALE SPEAKER: So Nexus is being coordinated
6 with the IAMS program. The data that we're getting in
7 from the grantees will be transferred to the IAMS people,
8 along with the papers and documentation that goes along
9 with that.

10 MR. ELWORTH: I would like to see the dollar
11 amounts at some point.

12 MS. MULKEY: Okay. We'll try to get an answer.

13 MR. ELWORTH: On the school IPM stuff,
14 apparently California just had a program funded, too, in
15 school IPM. How -- what connection is --

16 MS. GESALMAN: Region 9, California, is very
17 active in our work group.

18 MR. ELWORTH: Okay. But this is a state
19 program.

20 MS. GESALMAN: Right.

21 MR. ELWORTH: This is a DPR program.

22 MS. GESALMAN: Right. And the people in EPA's

1 Region 9 are involved with the state people as well. So
2 there is a lot going on in California in L.A. and in
3 Marin and a variety of places in terms of IPM.

4 MR. ELWORTH: Uh-huh.

5 MS. GESALMAN: So, again, like I said, we're
6 just trying to get a handle on all the things that are
7 going on and make sure that people are talking to the
8 right people.

9 MR. ELWORTH: Uh-huh.

10 MS. MULKEY: Yeah. A big focus of our effort is
11 a clearinghouse, the left hand knowing what the right
12 hand is doing, rather than doing things ourselves.

13 MR. ELWORTH: Okay. And can I get a copy of the
14 Fun with Cockroaches pamphlet?

15 MALE SPEAKER: Activities with Cockroaches.

16 MALE SPEAKER: You can't kill them. You've got
17 to play with them.

18 **(Laughter)**

19 MS. MULKEY: All right. I think Bill was next.

20 BILL: I just want to echo Larry's sentiment
21 here. I was astounded at the amount of work that is
22 going on in this area. I had no clue. And I know some

1 of the joint venture work that is going on in the trade
2 associations, but I thought that was sort of almost
3 primary and above. And really that's a small part of
4 what's going on. So I'm very impressed with what is
5 happening.

6 A couple of questions about that. To what
7 extent are these grants -- have you scripted sort of the
8 data gaps and the things that you need and know that this
9 will fill them? That's one question. And the other one
10 is, I would hate to see this amount of effort put forth
11 and then have it sort of criticized and shot down or, you
12 know, industry or academia sort of maybe take potshots at
13 it. Is there any sort of oversight or sharing beyond
14 this kind of scope that is assuring that once these data
15 are collected and might be used in modeling that it's not
16 going to be criticized?

17 MR. SAINT: There are two levels of -- there are
18 two types of research that we're doing. We have a grants
19 program and then we have our own researchers in the labs.
20 In all cases, the work is published in the -- to become
21 official, it's going to be published in peer review
22 literature.

1 In the case of our in-house studies, the studies
2 are peer reviewed before they're implemented. Likewise,
3 in the grants program we issue RFAs -- requests for
4 applications -- which specify the type of research we
5 would like to have done. They're not as prescriptive as
6 an RFP, which is asking for contract work. But they do
7 lay out the priorities and what we would like to have
8 done. A peer review panel reviews all those proposals
9 against that RFA and the best ones -- the most highest
10 quality science are considered for funding and then we
11 fund as many as we can given the budget.

12 They obviously publish through the normal
13 publication channels in the peer review literature. And
14 we have several efforts encouraging them to publish more
15 and sooner. That is the main peer review process and the
16 results stand up to that -- if they get through that
17 process, they'll stand up to criticism in a scientific
18 community.

19 Now things can always be misused. But given
20 what's published in the literature, you always have a
21 touch tone to be able to go back and say, well, you know,
22 the paper said, you know, it can be used for this, but it

1 can't be used for that. And you're using it for that, so
2 you shouldn't do that. So there is a reference there.

3 We do not have a specific program designed to
4 kind of ensure the quality of the publications. Each
5 project we have has a Q&A program related to the data
6 collection activities, and there is a series of steps
7 they have to go through, including review by me and other
8 project officers on their Q&A, site visits and other
9 things like that. But that's more of the nuts and bolts
10 of the study rather than the publication of the results.

11 Did that answer your question?

12 MS. MULKEY: Buried in your question is
13 something more basic, which is how much of this research
14 is specifically designed to meet the needs of the
15 pesticide program's risk assessment and risk management
16 challenges. And that question is not -- could be posed
17 to the agency with any of its hats on, whether it's the
18 Recker program or the AIR program. And there is an
19 extent to which the work of our Office of Research &
20 Development is very closely meshed with programmatic
21 needs, and there is an extent to which it is deliberately
22 maintained somewhat independently of programmatic needs,

1 so that it is the scientists deciding what science
2 questions are most worthy of pursuit and most needy.

3 So it's a mix, frankly, of research that is very
4 carefully calibrated to address a data gap, or a data
5 interest that we've identified and surfaced, and research
6 that may serve that purpose, but may have been designed
7 and pursued because of some fundamental questions that we
8 believe we need -- we, collectively, larger EPA believes
9 need to be answered. Some of it is primary search. You
10 know, really -- so there is a -- the dynamic of how
11 agency sponsored research fits with agency programmatic
12 needs is a constant and tricky dance that involves a lot
13 of different competing considerations.

14 MALE SPEAKER: Marcia, a quick question, sort of
15 a follow up. You've got all these different levels, it
16 sounds like, of research gaps. Yet at the end,
17 presumably this is all going to have to be plugged into a
18 model that helps you determine residential exposure -- or
19 residential risk. I guess that would be the more -- I
20 would be more worried about the ability to merge all
21 these studies together to try to form a single risk
22 assessment that has meaning and equivalence.

1 MS. MULKEY: Well, I think we think of these
2 data -- and maybe the scientists could help me -- as
3 another very valuable source of data, just as registrant
4 sponsored data and sometimes general public literature
5 data. And that as these studies become available, we use
6 them as best we can. And we don't wait for all of them.

7 Do you want to elaborate on that?

8 MIKE: Yeah. There are various parts of the --
9 various things that ORD does are already interwoven in
10 the risk assessments that we do. And as we get new data
11 from them, we incorporate it in the risk assessments. An
12 example would be the new transfer -- transfer factor for
13 movement of pesticides from children's hands and the
14 saliva extraction factor is something they have been
15 working on for a while. That is a new piece of
16 information which we got recently, and really it will
17 help improve our risk assessments tremendously and make
18 them more accurate for children's hand to mouth behavior.

19 Some of the behavioral data -- some of the stuff
20 that sounded funny earlier with the picture taking --
21 that's very useful information, because you know how many
22 times a kid might pet the dog during the day, so you know

1 how to do your risk assessment.

2 MALE SPEAKER: By the way, we had an idea on
3 that camera and the video taping. Use a catcher cam, you
4 know, in the off season. The little cameras that the
5 catchers do for Fox.

6 **(Laughter)**

7 MALE SPEAKER: I never noticed it.

8 MALE SPEAKER: Yeah, it's funny. And you could
9 do an ump cam like they do in football.

10 MALE SPEAKER: They have a single recorder and
11 they have several little cameras in different rooms.

12 MALE SPEAKER: Oh, okay. Sorry.

13 MALE SPEAKER: But a two year old really did
14 tear the first one apart.

15 MALE SPEAKER: But there is all the information
16 that is in the Exposure Factors Handbook that we
17 incorporate into risk assessment, and the draft kids --
18 Children's Exposure Factors Handbook that we would use.
19 And then -- that's some of the stuff that we're currently
20 using in the risk assessments that we've been doing, plus
21 there is all the work that they're doing for us in the
22 future. Work related to our doing distributional

1 assessments for residential. And a lot of that we'll be
2 able to use in the future.

3 So there is stuff that we're able to use now
4 that they've been doing over the past several years, plus
5 the stuff that we'll be able to use in the future.

6 MALE SPEAKER: But they're being designed so
7 they're mergeable into the databases you currently have?

8 MALE SPEAKER: Yes. Chris and I have --

9 MALE SPEAKER: So it's not apples and oranges.

10 MALE SPEAKER: Yeah. Chris and I have met
11 several times and had arguments.

12 **(Laughter)**

13 But generally a lot of the work they're doing is
14 very useful for us, not only giving us what we need to do
15 our risk assessments, but also pointing out where the
16 specific problems might lie. For example, the STAR
17 program, dealing with farm worker kids exposure and
18 showing us that we really need to focus on that area.

19 MALE SPEAKER: Yeah. The idea is to provide
20 data sets of tools in our program. We're not set up to
21 do the risk assessments for anybody. We do have an
22 assessment center which does risk assessments as

1 requested, but that's not really our job. Our job is to
2 provide things that can be used by the people to do risk
3 assessments.

4 MALE SPEAKER: Well, that's the critical point.

5 MALE SPEAKER: Yeah.

6 MALE SPEAKER: It can be used.

7 MALE SPEAKER: Yeah. So what we try to do is to
8 negotiate beforehand with the program offices as much as
9 possible on their needs and then implement things that we
10 hope will get what they need. Sometimes they don't,
11 because they either fail, as they do sometimes, or, you
12 know, through the vagaries of the granting process we
13 don't actually get what we ask for. And then we either
14 don't fund it or we think, well, that's still interesting
15 so we'll pursue it at a lower level or whatever. So, I
16 mean, there are other things that happen, you know.

17 But the idea is to provide small and large tools
18 and lots of data. I mean, because that's -- the NES came
19 out very early on in '93 or so and said there's not
20 enough exposure data, particularly in this area. So we
21 said, well, let's go get some.

22 MS. MULKEY: Bob?

1 MR. ROSENBERG: Is this like the question time
2 or the comment time or both?

3 MS. MULKEY: Either and both.

4 MR. ROSENBERG: Okay. Well, first of all --
5 well, then -- well, I don't have any good questions.

6 MS. MULKEY: We'll give you two rounds, if you
7 want them.

8 MR. ROSENBERG: But I've always got opinions.

9 MS. MULKEY: And you don't have to feel like you
10 have to use all of them.

11 **(Laughter)**

12 There is another half hour.

13 MR. ROSENBERG: Well, here's a couple thoughts.
14 One is, first of all I would like to just tell you just
15 how grateful we are to have had this discussion here
16 today. I think, if I'm not mistaken, it's the first
17 public discussion of these issues, with the possible
18 exception of the SOP discussion before the Science
19 Advisory Panel. And I'm grateful for that.

20 I couldn't help but be struck by a couple of
21 things. One being the incredible complexity of doing
22 residential risk assessments. The enormity of the task.

1 What I wonder is this. I've always thought the genius --
2 maybe it was intentional and maybe it wasn't. But the
3 genius of the TRAC process was prior to the inception of
4 that process. There were lots of questions and lots of
5 uncertainty about how dietary risk assessments were
6 conducted.

7 And through that process, by the development of
8 science policy papers and discussions of data and papers
9 about what data are available and how those data are
10 used, it accomplished two important things. One was, I
11 think, it de-mystified the process. And secondly, I
12 think it made a considerable contribution to building
13 stakeholder confidence in the process. I think people
14 sort of understand how you do it and accept it and, you
15 know, are grateful that you do it.

16 I don't think those things have happened yet on
17 this side of the equation more or less. This is a great
18 start. You know, it's the first discussion and a lot of
19 good stuff -- I had no idea a lot of this stuff was going
20 on and the research that was going on.

21 I guess what I would like to see is some kind of
22 a process where we could do those same things for

1 residential exposure that the agency already has done so
2 well for dietary exposure, which is to de-mystify and
3 better communicate to the public and stakeholders what
4 this process is all about. And I would suggest -- you
5 know, I know everyone hates work groups. But I would
6 suggest that it might be useful to the agency to convene
7 a work group around this issue of folks -- you know, more
8 than just sitting at this table who are involved in this
9 question, who could maybe meet a couple of times and talk
10 about ways to accomplish those two goals.

11 So just in summary, you know, this is great.
12 I'm glad we're having this discussion. I would love to
13 see a continuation of discussion to the point where the
14 folks I represent, for instance, have a high level of
15 confidence in the regulatory decisions that the agency is
16 making. And I think it's best accomplished through a
17 work group.

18 MS. MULKEY: Do you think this topic lends
19 itself -- not necessarily instead -- to a workshop? In
20 other words, this was an hour. You could have a three
21 hour version. You could have a five hour version. And
22 it could be interactive, but working through how it's

1 done. Is that part of what I hear you asking for or not?

2 MR. ROSENBERG: Maybe, Marcia. I think my -- it
3 depends on -- you could call it a work group or workshop.
4 I think it would depend more on interactivity more or
5 less. I think there are questions that in my mind -- I
6 mean, much of what was said was way over my mind. My
7 only science that I had was political science. I didn't
8 understand a lot of that stuff.

9 **(Laughter)**

10 How does all this stuff fit together. You know,
11 there is a lot of stuff. I mean, all this data and all
12 the science and a lot of stuff. I mean, how do you bring
13 it all together and come up with a single number that
14 says that, you know, this product poses an unreasonable
15 risk or does not.

16 I think that could be accomplished in a
17 workshop. I think it could be accomplished in a working
18 group. But I think the agency really needs to try to
19 identify some kind of process that would allow for the
20 de-mystification of this process.

21 MS. MULKEY: Okay. Any --

22 MALE SPEAKER: Can I weigh in on that?

1 MS. MULKEY: Yeah, if you would like. Dan is
2 the next person, but I think he'll let you go ahead.

3 MALE SPEAKER: I just -- I think a work group
4 might be a more productive event or series of events,
5 because I think there is some complication here. I think
6 having a single workshop may convene in a richer way what
7 we heard today, but not much more than that. And even if
8 it were interactive, I think this connect piece is
9 missing here a little bit. I mean, there is a lot of
10 data generation. How is it going to be used. How does
11 it hang together. Seek outside input so that it's sort
12 of -- at least assures some immunity to criticism later
13 on.

14 I think a work group with stakeholders would be
15 a better way to go.

16 MS. MULKEY: Dan?

17 MR. BOTTS: Just to reinforce the previous two
18 speakers, I saw the notice of the grants that went on on
19 the farm worker children's study and some other things.
20 And I started asking questions then about what was the
21 purpose. Where was the focus. This is the first time
22 I've had a real good discussion of how the whole process

1 interrelates. And a lot of the things that you talked
2 about today are going to be the bedrock of taking the
3 very conservative assumptions out of the SOPs on
4 residential work as it goes forward.

5 And I guess one of my questions is, is there a
6 time line in your mind as far as when you'll get through
7 whatever process, of either internal peer review or
8 external peer review, of the information in the data set
9 to where we start seeing some of the results of this
10 process showing up in the risk assessments that are
11 leaving the regulatory decisions to the re-registration
12 process or in the existing program on the OPs that are
13 out there now.

14 And that's probably a question, Marcia, for both
15 you and our friend from ORD. But I guess, how is that
16 process going to work and how is it going to be
17 transparent. How are we going to know that all of a
18 sudden there is this huge new database that's been
19 inserted into the program that Mike is using to do his
20 risk assessments to come up with the numbers that we deal
21 with on the user side from a regulatory impact standpoint
22 on the products that we use.

1 I guess -- I don't know whether that's a fair
2 question or not. And then I've got a question for the
3 spray drift issue.

4 MS. MULKEY: Do you want to start?

5 MR. SAINT: Sure, I'll start. Well, the things
6 I talked about today didn't all start at the same time,
7 so some of them are ongoing and some of them haven't even
8 gotten in the field yet. C-Tech has only just started
9 out in the field, for example, and the children's
10 preschool. The other children's studies are finished in
11 the field, and we're hoping to get their data by next
12 September to get it all packaged and in our hands.

13 Nexus, which is a broader set of data from two
14 regions of the country. We just have funded a project to
15 consolidate that into an Internet useable database,
16 because it's a much more robust data set because it's
17 population based. It was proportionately sampled from
18 populations. And that was supposed to be up next month,
19 but there have been contracting problems. But it will be
20 up this year. So very soon for some of this data.

21 Some of the children's data, the C-Tech which is
22 a more -- which is looking at very young children

1 probably won't be available for several years. The
2 information that they're developing in the children's
3 centers in the farm worker communities probably won't be
4 available for at least a couple years, because they only
5 just got in the field last spring.

6 So there is a whole series of kind of milestones
7 that we've laid out through the -- do you know what GPRA
8 is?

9 MALE SPEAKER: Uh-huh.

10 MR. SAINT: The government monitoring program?

11 MALE SPEAKER: Uh-huh.

12 MR. SAINT: We use to call it deliverables in
13 the old days. You know, we've laid out these milestones
14 and we're trying to stick to them as close as possible.
15 But, you know, research is a pretty big thing. You know,
16 when you go out in the field and all the monitors
17 breakdown, or as we had this year, all of our
18 phlebotomists quit so we couldn't get all the blood
19 samples. You know, it happens, but we're trying to get
20 this stuff.

21 And the other thing is, under grants we have no
22 legal means to make them give us the data, thanks to

1 Congress. So we're -- so we are now trying to look at
2 the new Executive Orders on data availability to force
3 our grantees a little bit harder to make their data
4 available. And that includes OPP, obviously.

5 MR. BOTTS: Are they excluded from using your
6 data in the interim --

7 MR. SAINT: No.

8 MR. BOTTS: -- if there are things that, gee
9 whiz --

10 MR. SAINT: If we can get it, they can have it
11 right away.

12 MR. BOTTS: Then my question goes to Marcia.
13 How do we know that you have made these changes, like the
14 things that were mentioned earlier on the transfer of
15 factors and those kinds of things. How do we know that
16 those things have been added to the process?

17 MS. MULKEY: I think you asked a very
18 fundamental question about how do we keep the world aware
19 of every incremental change in science as we internalize
20 it and begin to use it. And, you know, we're working
21 hard at that, and as you know, we try to make individual
22 risk assessments public. We try to make our

1 methodologies public periodically. These SOPs into which
2 a lot of these data are fed -- I mean, the SOPs, as you
3 know, are not just made up things.

4 We are updating that so that you'll have when we
5 do what we call finalize, but as you know, we've never
6 said these things are truly final. They will reflect the
7 most up to date -- on any given day there is likely to be
8 something in transition that isn't yet reflected in a
9 risk assessment that is in the public domain.

10 But we're open to ideas about ways to be more
11 transparent. But our goal is to let it all hang out.
12 You know, to have no secrets about what data we're using
13 and what methodology we're using. This is why we have
14 all -- we've infused so much of this public process into
15 what we're doing. I think we're always open to
16 suggestions about whether there is a better, more
17 efficient way to do that.

18 I was interested to hear how much ORD -- I have
19 learned today how much ORD has gone to a web based
20 approach. And one of my thoughts was, can we do some
21 better linking between our web site and their web site
22 and things like that.

1 Mike, do you --

2 MIKE: Yeah.

3 MS. MULKEY: Do you have any thoughts on this?

4 MIKE: Yeah, a couple comments specific to what
5 -- to what we're talking about today. All of this stuff,
6 we use it as it comes in. As we get this information
7 from ORD, we start using it after we evaluate it and make
8 sure it's the proper information to use and it makes
9 sense to us.

10 But we do take it then to the SAP. All the
11 stuff -- the saliva extraction factor I think has already
12 been to SAP, hasn't it? Some of that stuff -- but it
13 will eventually all go through SAP. So in that forum, it
14 will be announced that, you know, we're going to -- that
15 we've looked at it and we're considering using it, or
16 that we're going to be using it.

17 And I wanted to throw in another comment in
18 response to something you said about the conservativeness
19 of the SOPs. The comment is that the SOPs aren't as
20 conservative as people generally think. The data in the
21 SOPs is real data and it needs to be updated. It needs
22 to be improved as we get additional information. But

1 some of the information we're getting from ORD is showing
2 us that these SOPs aren't conservative necessarily in
3 some cases at all.

4 So I think we want to be careful in thinking
5 that when we get all of this new data in it's going to
6 change things radically and all of our risks are going to
7 disappear or whatever. I don't think they will.

8 DR. BOTTS: Well, I don't know that I meant to
9 imply that I thought that, but that's -- I was going by
10 what the SAP said when they reviewed them and said that
11 they didn't need to add the extra safety factor because
12 they were conservative enough. If you loaded them all
13 together, you didn't need the extra factor.

14 MS. MULKEY: Also -- they also criticized a lot
15 of them internally for what they regarded as inadequate
16 conservatism.

17 MR. BOTTS: Yeah.

18 MS. MULKEY: So their input was a real mixed bag
19 on that issue, too.

20 MR. BOTTS: But to the spray drift issue, and
21 this goes to a presentation I had from the spray drift
22 task force relative to some potential labeling changes or

1 what's starting to show up on labels, because evidently
2 everything seems to be driven by droplet size and
3 potential for movement off site more than anything else.
4 And what we were provided with was some information that
5 there was going to be some very specific nozzle pressure
6 combinations to ensure certain droplet size for certain
7 ag uses.

8 And our concern with this -- and I don't know
9 whether it has made it out to anything other than the ag
10 community yet, and it's going to be bad enough there.
11 But for the very same reason people don't read
12 rodenticide labels, if you start specifying label types
13 and pressure levels on homeowner's pressure one
14 applications and those things for drift potential
15 applications, I don't think you're going to be very
16 successful.

17 And I have a real concern for the ag side that
18 we're going to end up with compound specific spray rigs
19 before it's all over with the way some of this appears to
20 be headed. And if you think you've got problems now from
21 an economic standpoint, just wait until you hear that
22 conversation when it gets started.

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1 MALE SPEAKER: Let me address that. One of the
2 things we -- OPP strives to do in drafting new label
3 language is to stay away from specific technology. So
4 it's more -- our goal is really applicator behavioral
5 change, quite frankly. We know that technology for
6 nozzle types and spray rig design is constantly changing,
7 and we didn't want to lock companies, or applicators
8 particularly, into using nozzle type S-103 that is going
9 to be outdated a year later and then they would be
10 misusing the product if they didn't use that.

11 So OPP's goal is to not go in that direction at
12 all, but rather to tell applicators to do some very basic
13 things regarding how high to set the nozzles above a crop
14 canopy, for example, wind speed restrictions and things
15 that are very, very simplistic to follow, that the robust
16 database we have says these are the things that make 90
17 percent of the difference. We don't want to get into
18 fine tuning.

19 Now it's not to say that our guidance -- I mean,
20 it is guidance to registrants -- a PR notice. It's not a
21 regulation. And it does allow room, if you will, for any
22 company to come in to us and say, well, for this product

1 that we have, we would like some real specific -- we want
2 to go beyond what you're recommending on the label,
3 because X, Y and Z is a real factor for this kind of
4 product, whether it's the toxicity, it's formulation type
5 or whatever.

6 And we'll look at that. But we -- you know, our
7 approach now is to stay away from specific technology to
8 put on labels. We think that creates a whole set of
9 problems.

10 MR. BOTTS: I've seen two labels.

11 MALE SPEAKER: I know. But there is -- they're
12 probably older. I'm not aware of which labels. But I'm
13 just saying that the direction that we're moving in, that
14 we're going to propose, stays away from that approach.
15 And we're going to be asking companies to re-look at all
16 of their labeling on spray drift and take off what we
17 think is not appropriate any more. Take a look at what
18 our guidance says in the PR notice and come back to us.

19 MS. MULKEY: It's also important to remember,
20 Dan. We are going to ask for comment on this major
21 guidance document. And if you see issues with what we're
22 looking at, we definitely want to hear from you.

1 MR. BOTTS: Well, I haven't seen your guidance
2 document. I'm working off of a reference in the slide
3 presentation that had two new labels just been approved
4 and both had very specific labels -- or brand name type
5 labels and pressures that would be required to be used
6 for that product.

7 MALE SPEAKER: One of the things we do want --
8 we would want companies to think about in their labeling
9 is specifying spray quality droplet size without getting
10 into nozzle type specifics and left up to the applicator
11 by putting in the SAE new spray quality guidance that has
12 been approved, say, use, you know, a medium droplet
13 according to SAE. And then that allows them to pick all
14 kinds of nozzles.

15 MS. MULKEY: Sarah?

16 MS. LYNCH: Yeah. I just had a general comment.
17 This is not my area of expertise at all. I'm just really
18 sort of amazed at the complexity of the issue that you
19 all have tried to address looking at the residential
20 exposures and how important it is to do what you're
21 attempting to do. So I really, you know, pat you on the
22 back, encourage you and say that I think this is really

1 an important, you know, missing link. Something that has
2 had so little attention in the past.

3 And the complexity of, you know, the various
4 routes, methods of exposure, modes of exposure, etc. --
5 venues that people can get exposed to these chemicals in
6 the real world, you know, makes me think about what we
7 don't really know about chemicals. We don't really know
8 about some of these exposure routes. And yet, you know,
9 our registration process sort of assumes that we have a
10 certain knowledge base that perhaps we don't really -- we
11 really have.

12 I think that underscores the importance of what
13 the FQPA does in telling us to try to bring all of these
14 together. And while I, you know, understand Bob's point
15 of view that we really do need to know a lot more before
16 we perhaps should be taking these regulatory decisions, I
17 think that the precautionary principle needs to be really
18 thought of here, because there is enough information to
19 make us think that there are these issues that have to be
20 addressed. The science is -- all the information will
21 not be available to us, you know, to the nth degree.

22 So I hope that we will really think carefully

1 about the -- you know, to take the necessary precautions,
2 too.

3 MALE SPEAKER: Yeah. One of the things that
4 we're trying to do in looking at pathways is -- and
5 partly in the modeling -- although using models is a way
6 to do this -- is to look at how important the various
7 pathways are to the total exposure given the particular
8 scenario -- or a set of scenarios. Kind of a sensitivity
9 analysis, to use a statistical term.

10 You know, in an assessment framework, you know,
11 you sometimes -- and we've done this already, because
12 we've picked scenarios that we felt would probably be the
13 most likely to produce the highest exposures in certain
14 assessments. If we were able to have tools that would
15 allow us to do that quickly and efficiently and be
16 reasonable -- reasonably certain or within bounds that
17 we're correct, that might help us short cut a lot of
18 these things. And we could actually make decisions at
19 that stage rather than go to a full assessment. But
20 that's not my decision.

21 So we're trying -- like I said before, we're
22 trying to develop tools that people can use to make

1 decisions, not necessarily trying to make the decisions.
2 And that doesn't -- and we're trying to make them so
3 they're not compound specific so we don't have to do
4 another one every time a new compound comes along. We
5 can have techniques that are robust.

6 MALE SPEAKER: Just one quick comment. Can I do
7 that?

8 MALE SPEAKER: No.

9 **(Laughter)**

10 MALE SPEAKER: No. I just wanted to respond to
11 Sarah.

12 MS. MULKEY: People have been waiting, but if
13 it's directly connected.

14 MALE SPEAKER: It'll take 10 seconds. I just
15 wanted to be clear that I was not necessarily questioning
16 the caliber quality of the science or the regulatory
17 decision. What concerned me was the very fundamental
18 question of how do I tell a PCO that I represent that EPA
19 made a good decision in a way that they can understand.

20 MS. MULKEY: The form of the transparency issue.

21 MALE SPEAKER: Yeah.

22 MS. MULKEY: We'll go Jay, Jose, Adrienne and

1 J.J.

2 MR. VROOM: I have three questions. Could you
3 give us kind of a beginning to where we're at today and
4 project an end on the SOPs for residential exposure? Are
5 we done? Are we midway?

6 MS. MULKEY: Do you want to answer that?
7 Margaret Stasikowski is the Director, as you know.

8 MS. STASIKOWSKI: We are just finalizing making
9 the final -- incorporating the final comments that we've
10 received, and we expect to go out with the revised SOPs
11 in very early winter.

12 MR. VROOM: Okay.

13 MS. MULKEY: But they're always a work in
14 progress.

15 MR. VROOM: Right. So they would be published
16 in the Federal Register?

17 MS. STASIKOWSKI: Right. Early 2001.

18 MR. VROOM: As final?

19 MS. STASIKOWSKI: Right.

20 MR. VROOM: Okay. And how long has that process
21 been underway? I'm just trying to understand how much
22 effort --

1 MALE SPEAKER: It's been underway for about a
2 year now.

3 MR. VROOM: Okay.

4 MALE SPEAKER: Since the last SAP in September
5 of 1999. It's also going to include the SAP comments.
6 But previously the provisions had gone through public
7 comment through a Federal Register notice as well. The
8 complexity was trying to incorporate not only the SAP
9 comments, but the public comments. And also we received
10 comments from USDA and also from other -- from ORD. And
11 that's been the complexity.

12 And also along with revising the SOPs, we have
13 to produce a comment and response document which
14 describes all the comments and our reaction and how we
15 incorporated them into the document.

16 MR. VROOM: And how much --

17 MALE SPEAKER: It takes a lot of work.

18 MR. VROOM: Yeah. And how much change has
19 resulted from all of that effort, would you guess? Not
20 to pin you down here in terms of what will be revealed
21 when the Register notice is published.

22 MALE SPEAKER: I honestly -- I don't know how to

1 characterize that.

2 MR. VROOM: Okay.

3 MALE SPEAKER: They'll be changed for some
4 specific risk -- types of risk assessments. I think Jeff
5 can --

6 MALE SPEAKER: I'm just wondering, do you want
7 specifics? We can talk about some examples. For
8 example, we modified how we do dermal risk assessments
9 for children. And we modified some other factors like
10 the saliva extraction that Mike was talking about
11 earlier, and also some of the approaches for pet
12 exposure.

13 So really across the board there were
14 modifications here and there. Some were more major than
15 others. But, you know, they do reflect the new changes
16 that Bill was talking about. They do reflect the most
17 recent data from ORD and whatever other sources we had at
18 this point.

19 MR. VROOM: Okay. A specific question with
20 regard to estimating children's exposure to some
21 pesticidal compounds that might also have exposure from
22 non-pesticidal routes. Like, for instance, treatment for

1 head lice in schools certain OP compounds and pyrethroids
2 might be used.

3 Have you found a way to sort of anticipate that,
4 and is that part of the overall SOP process? Can you
5 accurately set that aside and segregate that from
6 exposure from normal, other traditional kinds of
7 pesticide -- pesticidal uses -- treatments?

8 MALE SPEAKER: To me that's --

9 MR. ZAGER: In one specific case, which we dealt
10 with recently we did not include it in the aggregate
11 exposure assessment. It was regulated by FDA and we did
12 not include it.

13 MS. MULKEY: I mean you're asking -- I couldn't
14 tell whether you were asking a science question or sort
15 of a science policy question. Will we be aggregating
16 those sources?

17 MR. VROOM: Right.

18 MS. MULKEY: Was that the question?

19 MR. VROOM: And as you're developing some of the
20 models, are you using those kinds of exposures to build
21 the exposure models?

22 MS. MULKEY: The only time I can think that

1 would be implicated is if you were using body burden data
2 that might reflect some of those sources. And I don't
3 know if we've faced that issue.

4 MALE SPEAKER: I'm not aware that we have.

5 MS. MULKEY: That's the only place I can think
6 of that it would be a confounding variable, if you will.

7 MR. VROOM: Well, in the process of gathering
8 data to develop the models, have you taken blood samples
9 from children that might have been -- might reflect
10 exposure, for instance, to treatments for head lice that
11 would not be regarded as a pesticidal treatment?

12 MALE SPEAKER: We haven't taken blood samples.
13 We've taken a lot of urine samples.

14 MR. VROOM: Okay.

15 MALE SPEAKER: The pesticides that we're worried
16 about don't show up in the blood.

17 MR. VROOM: All right.

18 MALE SPEAKER: But we are in one study
19 collecting data on pesticide use in the school for, you
20 know, body pests. And that, as Marcia pointed out, has a
21 compound factor, because we have an inherent problem that
22 our exposure assessments do not adequately predict the

1 urinary output of the metabolites and haven't for some
2 years. That's one of the reasons we're doing all this
3 data collection, is trying to figure that out. So we do
4 have to collect a lot of data on compounding factors for
5 that reason, trying to figure out where all this extra
6 pesticide is coming from in the urine.

7 MR. VROOM: Uh-huh.

8 MALE SPEAKER: But that data is basically being
9 provided by the school districts in Minneapolis where
10 we're working, and then we're getting anecdotal data. As
11 we get a child into the study, we find out if they have
12 had -- from the nurse if they have had a lice treatment
13 in the last -- I think it's the last seven days -- or
14 whatever days. But nothing -- nothing has been designed
15 to collect that data for a specific purpose.

16 MS. MULKEY: As far as I know, none of our
17 current risk assessment methodology -- and you can
18 straighten me out -- relies on data or models based on
19 data from body burden. We do look at those data when
20 they're available to help us understand what they may
21 tell us about our other risk assessment methodology.

22 But I don't think we based any risk assessment,

1 and certainly no regulatory decision making, on any of
2 these kind of body burden data.

3 MR. VROOM: Okay. My question was the acronym
4 NHANES, and I think, Chris, this is out of ORD. Could
5 you speak to that?

6 MR. SAINT: (Inaudible).

7 MR. VROOM: Okay. How does that data from
8 NHANES impact any ORD activities, and then ultimately
9 what does OPP do with that? How does all that get
10 coordinated?

11 MR. SAINT: NHANES is basically a big epi study
12 -- epidemiology study. I mean, it's a health --

13 MR. VROOM: Can you provide me with what the
14 acronym stands for?

15 MR. SAINT: National Health and Nutritional
16 Examination Survey. It's a large health based study run
17 out of the National Institute for --

18 FEMALE SPEAKER: The National Center for Health
19 Statistics.

20 MR. SAINT: Right. The National Center for
21 Health Statistics at NIH. And we are sponsoring part of
22 it in terms of collecting some exposure information. But

1 as a traditional epi study, it's not a robust exposure
2 study like Archer is. The only real chemical data they
3 have relating to exposure are body burden data, which is,
4 you know, body related: blood, urine and some other body
5 fluids and tissues.

6 MR. VROOM: So it would only be regarded by OPP
7 as something that is kind of a reference database, then?

8 MS. MULKEY: That part of it. I mean, it also
9 gathers some information that might -- somebody else help
10 me. Some exposure related information. I don't mean
11 body burden. I mean behavior information, for lack of a
12 better word.

13 MALE SPEAKER: There are some questions on the
14 questionnaire about exposure related behavior which we
15 added to the design.

16 MR. VROOM: Behavior of?

17 FEMALE SPEAKER: Diet. Dietary.

18 MALE SPEAKER: Pesticide use. Some consumption
19 of some types of foods. Those kinds of things. I mean,
20 they have a whole nutritional survey part which talks
21 about food consumption.

22 MR. VROOM: right.

1 MALE SPEAKER: Which is useful data. But there
2 is dietary exposure. Jeff, are you familiar with --

3 MR. DAWSON: We have done some work. I think
4 it's been a while since I've looked at this. But I think
5 NHANES-4 has gone in the field or whatever it is, and
6 we've asked them to collect more kind of germane
7 information about residential uses as much as we could,
8 like how much they use or is there some come of a use
9 event connected with this health assessment or whatever
10 it might be. So we have tried to work with them to get
11 as much of that information as we could.

12 MR. VROOM: Well, not to let Al off the hook,
13 but what about USDA, then, as far as NHANES is concerned?
14 Since there is a nutritional element there, is there some
15 kind of full circle coordination?

16 MALE SPEAKER: Yeah. And it's becoming even
17 more full circle. Our food consumption surveys, which
18 used to be independent stand alone surveys, are no more.
19 We will be collecting food consumption data as part of
20 NHANES from this point on. So when the people are in the
21 trailer, in addition to all the other information they're
22 being asked, they will be asked what they ate that day.

1 And of course there will be a follow up that will
2 probably be a telephone survey.

3 There are certain weaknesses in the design of the
4 NHANES. For example, they follow the sun. So you won't
5 find them in North Dakota in January.

6 **(Laughter)**

7 They're very clever there. And, of course, what
8 we're trying to gather is what is a picture of typical
9 consumption. We try to capture the full year, because
10 people's food choices change throughout the year. So we
11 are trying to figure out how to compensate for that. So
12 we'll take a summer day in North Dakota in person and
13 then try to do a telephone follow up in January or
14 something along those lines.

15 **(END OF TAPE 4, SIDE B)**

16 MS. MULKEY: Anything else? Jose?

17 DR. AMADOR: One of the advantages of being one
18 of the last ones is that somebody either said what you
19 wanted to say or made the comments already ahead of time.
20 But I have some concern, too, like Don said, about
21 getting too specific on the label when it comes to spray
22 drift recommendations. Once you put it on the label, you

1 kind of get hamstrung in what you're going to be able to
2 do and not do. And I can see how that could be a problem
3 and would open a lot of additional questions,
4 particularly in the cases of litigation.

5 And on the slide that he presented, on the
6 second slide where he got the improved drift control
7 measure on product labels and the continued support and
8 education program to train the applicators, I think maybe
9 most of the efforts should be put on the training of the
10 applicators, rather than trying to put a very specific
11 recommendation of what kind of equipment or how it should
12 be used for specific chemicals. I think that could open
13 a lot of problems, like I said.

14 And there is kind of a question that I was
15 asking Jay before the break. Maybe I can get a sense
16 from the other people. At least in my part of the
17 country, it seems like the complaints about drift into
18 residential areas have been reduced a lot in the last
19 couple of years because of maybe the right to know, or
20 maybe the farmers are more aware of the problems, or
21 maybe the regulations are a lot more strict.

22 I don't know if this is the feeling that people

1 have from other parts of the country. So if somebody
2 could tell us, you know, in the case, you know, where you
3 get a complaint. I don't have an official figure from
4 the Texas Department of Agriculture. But just what it
5 used to be in the past and what I hear now, it seems the
6 complaints about drift from the agricultural areas to
7 residential areas seem to have gone down quite a lot.

8 I would just like to hear some comments on that
9 to get a feeling on it.

10 MALE SPEAKER: Again, as I was addressing Dan's
11 concern, our interest is to keep the labels as simply as
12 possible as far as this. We don't want to get too
13 technical. That leaves a whole host of problems. You
14 know, the applicators won't be able to follow the
15 directions, or they won't make sense to them, given that
16 we're trying -- given that we're doing national labels as
17 opposed to regional labels.

18 We know that some of the difficulties we've had
19 in trying to craft some draft label language is just the
20 wide variations going from Maine to New Mexico on crop
21 types, crop geometry, weather patterns and things that
22 really effect drift, and trying to simplify this as much

1 as possible without getting too detailed in a lot of
2 algorithms, if you will, on the label.

3 So we took a look at -- our scientists sort of
4 factored out from this very large database what are the
5 three or four things that make a world of difference in
6 reducing drift. Sort of the generic kinds of things. It
7 doesn't matter --

8 DR. AMADOR: Not specific to the chemical?

9 MALE SPEAKER: No. It's not related to the
10 chemical. So very generic. Very important things that
11 we think applicators -- many of them are doing now,
12 because we've talked to a lot of applicators for all the
13 different major application methods and got a sense of
14 what they're doing, what they're capable of doing and
15 what they're willing to do. And by putting that on a
16 label, it obviously has an enforcement piece to it.

17 So we do want to keep it very simple. We think
18 simpler is better. It makes more sense.

19 DR. AMADOR: You also have an enforcement piece
20 in the recertification program that most of the
21 applicators, you know, have to go through.

22 MALE SPEAKER: Right. Right.

1 DR. AMADOR: So the effort is on the education
2 program.

3 MALE SPEAKER: That's right. And so our
4 labeling effort blends in very nicely to a lot of the
5 initiatives that are in the C&T program, as well as the
6 private section -- the applicator sector -- on training
7 applicators about drift. And that is -- those training
8 efforts have just mushroomed greatly over the last three
9 or four years, I would say. I know that I have been
10 involved with two new training videos, as well as some
11 CD-Rom training and education things. There are new web
12 sites that are being done by Extension personnel that
13 would be used nationwide.

14 So that's expanding tremendously. And I think
15 that supplementing the label with these training programs
16 is really the way to go, because you're really telling
17 the applicators, here's what you need to do to get away
18 from this drift problem. I mean, here are the things
19 you've got to do -- the real basic kinds of behavioral
20 changes, frankly -- and just be willing to say no, I'm
21 not going to make the application if the weather
22 conditions are very unfavorable.

1 So we are a big supporter for sort of the
2 education outreach for applicators on this.

3 MS. MULKEY: Jay, do you have any sense about
4 the spray drift incident?

5 MR. VROOM: Oh, yes. And I can get you the
6 reports from Texas. When I look at the -- there is a
7 survey that was done by AFTCO between the years of -- I
8 want to say '90 -- '92 to '98. There is a six year
9 period in there where the number of incidents -- the
10 total number -- really didn't change very much from year
11 to year. There was about 2,500 reported incidents
12 nationwide looking at all different parameters and
13 variables, sort of the hot pesticides that were the most
14 common pesticides involved in drift, application
15 techniques, kinds of effects, etc.

16 Some of those parameters changed over time, but
17 the total number really hasn't. And so I can take a look
18 and get back to you about Texas.

19 MS. MULKEY: Okay. Adrienne?

20 ADRIENNE: Yeah. I just had a brief comment on
21 all of the research that Chris was talking about and the
22 concerns that were being expressed around the table.

1 I think that we -- what we're forgetting here is
2 that we're dealing with a science, and EPA is dealing
3 with a science, and it has to be malleable. And it's
4 constantly changing and new information is coming to you
5 every day. And I think we have to recognize that the
6 agency needs a certain level of flexibility in that area,
7 and that while I'm sure a lot of people would like to see
8 this go to a work group and have the opportunity to
9 comment on every single study, I don't know if that's --
10 I'm all for transparency and we would like more of it.

11 But I also recognize that if we want these
12 decisions to be made -- and I guess that may be what's
13 underlying a lot of this. Maybe we don't want to move
14 these chemicals to be looked at under the new data. But
15 if we want these decisions to be made, and we want EPA to
16 continue to do its job, we have to allow for some type of
17 flexibility to consider these and incorporate them into
18 the -- I'm sorry. I'm not using a microphone. I hope
19 everyone can hear me. I'm loud enough.

20 Anyway, so I don't know that that's really
21 necessary or really a solution to the questions that
22 people have expressed, which is really, well, when is EPA

1 going to be using these. I mean, that can be made clear
2 through the message that was described by EPA. And I
3 think that through the risk assessments maybe adding a
4 little more information as to what data was used may be
5 enough.

6 But putting this through yet another level --
7 and every time one of these studies is ready, that would
8 mean one of these work groups, or one of these workshops,
9 or something else would have to be had. And, yeah, it
10 would be great. It would be really interesting. But it
11 might delay the process. It might delay even further the
12 re-registration process and the reassessment process.
13 And that is what, I think, we want to avoid at all costs.

14 So we need to recognize that this is being
15 gathered in order to avoid our reliance on models which
16 has been so severely criticized. And it's a give or
17 take. We're going to have the information. Not
18 everybody is going to like the information. Yes,
19 everybody should be able to have access to the
20 information at some point. But I do think that we need
21 to keep in mind that there needs to be a certain level of
22 flexibility in using the data as it comes in.

1 MS. MULKEY: All right. J.J.?

2 DR. STEINBERG: We are yet again staring down
3 another amazing opportunity that I think would be a great
4 gift to the American people and everyone sitting around
5 this table. In the City of New York, we've had great
6 difficulty in trying to get a number of government and
7 other organizations to make available on one common site
8 all the environmental and environmental health
9 information we can get. We've struggled with this for
10 now over a year and a half with very, very, very little
11 success.

12 If we have to suggest yet another working group,
13 clearly between EPA, the rich data at ORD, USDA and FDA
14 and anyone and any data available from industry we can
15 make a common repository site, just like TRI, to get all
16 this information so that the data can be reached easily.
17 And then, of course, everyone can end up building their
18 own models.

19 I mean, I have to tell you, the first day a few
20 years back when I typed in my zip code and retrieved all
21 that information from TRI, I got goose bumps. And I
22 think if we can get that same level of information

1 centrally, that would be a wonderful thing to see. And I
2 think you are in the precipice of doing that. You have
3 all the representation here. We should see a beautiful
4 web site. We shouldn't have to hunt for it. And to get
5 that data would be just spectacular, and I think would
6 lead to a lot of clarity in the future.

7 MS. MULKEY: Larry?

8 MR. ELWORTH: Can I ask Chris -- this finally
9 registered with me. We pay -- taxpayers pay for data to
10 be developed that we can't get to be used for risk
11 assessments? That you can't get from the contracts --
12 from the grants you fund? I just want to make sure I'm
13 understanding you.

14 (Laughter)

15 I'm not being critical of you. I'm just trying
16 to understand.

17 MR. SAINT: The Grants and Cooperative
18 Agreements Act, which was passed many years ago,
19 specifies what we can use what's called government
20 assistance for. If we are purchasing something for the
21 exclusive use of the government, we can not use an
22 assistance agreement. We have to use a contract. Under

1 a contract, we can get whatever we specify in the
2 contract. They have to give it to us or they're in
3 default.

4 MR. ELWORTH: Uh-huh.

5 MR. SAINT: We are barred under the Grants and
6 Cooperative Agreements Act from using a grant or a
7 cooperative agreement to fund anything that is for the
8 specific use of the government only. It is supposed to
9 be for a public purpose. There is an Executive Order
10 which says that anything funded through a government
11 grant -- any data -- has to be made publicly available.

12 Now the interpretation -- it's in the
13 interpretation of that where the problem is.

14 MR. ELWORTH: You said the data has to be made
15 public?

16 MR. SAINT: Uh-huh.

17 MR. ELWORTH: Okay.

18 MR. SAINT: All information from the public --
19 from a government funded grant has to be made publicly
20 available. And I say -- it's not that we can't get it.
21 It's the interpretation of that rule that is in the
22 Grants and Cooperative Agreements Act, and the subsequent

1 Executive Order has been somewhat varied. And it's
2 basically related to intellectual property rights of the
3 individual investigators in the universities.

4 Because you've got to remember, their lives
5 depend on publication rates, and they get tenures for the
6 number of publications they get. And if someone else
7 publishes their work, you know, they're SOL.

8 MR. ELWORTH: Well, you said you can get it.
9 Does that mean you do get it, or like theoretically you
10 can get it?

11 MR. SAINT: Sure. We are experimenting right
12 now with RFAs that state flat out in it, you will provide
13 the data within a certain time at the end of your grant.
14 And we have had relatively good success with it.
15 Everybody is -- nobody has said, oh, I don't want your
16 money.

17 MS. MULKEY: In my experience, the difficulty is
18 less about whether than more about when.

19 MR. ELWORTH: Yeah.

20 MR. SAINT: Exactly.

21 MS. MULKEY: And a lot of times we're very eager
22 to see and use these data, and the researcher is very

1 proprietary about maintaining the confidentiality of the
2 data until she publishes.

3 MR. ELWORTH: Right. Right.

4 MR. SAINT: And the problem is, the laws don't
5 specify a time frame.

6 MR. ELWORTH: Okay. But do you actually in
7 these grants or cooperative agreements or whatever they
8 are provide funding for publication costs?

9 MR. SAINT: Yeah, for them to publish.

10 MS. MULKEY: Are we understanding --

11 MR. SAINT: And they do publish.

12 MR. ELWORTH: That's fine. That's fine.

13 MS. MULKEY: I mean, I had a comparable reaction
14 myself on this.

15 **(Laughter)**

16 MR. SAINT: What we don't do -- however, what we
17 don't do, which has become a real problem, is we normally
18 do not fund as part of these grants database development
19 costs.

20 MR. ELWORTH: Right.

21 MR. SAINT: The universities usually eat that
22 out of their indirect costs, which is a cost we pay, but

1 it's not a definite cost for database development. So
2 the problem is, you know, you can call anything a
3 database.

4 MR. ELWORTH: Yeah. Yeah.

5 MR. SAINT: You can put a Lotus spreadsheet up
6 on the web with no labels and just a big batch of numbers
7 and say, yeah, there's my data. It won't be any use to
8 anybody. So, you know, the difficulty lies in getting
9 the documentation that goes with it so the people can use
10 it.

11 And, you know, there are as many database
12 systems as there are researchers out there, so it's a
13 difficult problem.

14 MR. ELWORTH: Well, is this -- is this an
15 annoyance that you can fix with the FRA process, or is
16 this an endemic thing that is required by statute?

17 MR. SAINT: We're trying a couple of avenues.
18 We're trying the RFA process. We're trying to work
19 through the Federal Demonstration Partnership, which is
20 an organization of government agencies and universities,
21 to try and standardize rules for granting across all
22 institutions.

1 MR. ELWORTH: Uh-huh.

2 MR. SAINT: And we're working with them to come
3 up with terms and conditions for the grants that would
4 allow us to get the data after specific time frames and
5 allow for publication. There are a number of efforts
6 going on to try to clarify this issue. I mean, this is a
7 big hot issue with us right now.

8 MR. ELWORTH: Yeah. It does seem pretty
9 important to you folks.

10 MR. SAINT: But, you know, the other problem is,
11 if we do specify we want the data, you know, when the big
12 pile of CD-Roms comes into our office, I don't know what
13 I'm going to do with them.

14 MR. ELWORTH: Right.

15 MR. SAINT: So we also have to work at our end
16 with IAMS and other programs within EPA to find a home
17 for these and try and get them available in the most
18 efficient manner.

19 MR. ELWORTH: Uh-huh.

20 DR. STEINBERG: You know that to some degree --
21 you know, when the NIH decided they were going to get the
22 genetic code, what they did is, they changed the ground

1 rules. And part of the ground rules was that it was to
2 your advantage to get that information on the web as
3 quickly as possible. And that was proprietary
4 publishable information. Hal Varmis, the former Director
5 of the NIH, said that's a publication.

6 And I think if you -- if you can move your
7 scientific clientele to do that, that is a very important
8 goal standard to the point that you can also exercise
9 some kind compliance. For example, you can list their
10 project and if there is no data, then you just say that
11 there simply is no data, and that usually is cudgel
12 enough to get people to move along.

13 MALE SPEAKER: The one difference is a majority
14 of the NIH -- of the actual sequencing is being done
15 in-house at NIH. They have to do it. They're employed
16 by the government.

17 MALE SPEAKER: No. I'll have to -- I'll have to
18 say that that's not completely the case. I mean, the
19 extramural grant funding program has paid for a lot of
20 that. There has been private organizations also. But
21 there has been an overwhelming -- the ethos of those
22 organizations has now turned from waiting those one to

1 two to three years to get that publication out to
2 actually getting it on the web. Because you want it out,
3 you want priority, and if there is a mistake, you want
4 correction.

5 And I think you need that type of --

6 MS. MULKEY: Well, maybe part of the point is
7 that maybe there is some benchmarking we can do, and see
8 whether other parts of the government who obviously face
9 this problem have some interest.

10 Well, we've used our hour and a couple of
11 minutes.

12 MR. TINSLEY: Can I --

13 MS. MULKEY: Oh, I'm sorry. I'm very sorry,
14 Ian.

15 MR. TINSLEY: That's no problem. I was going to
16 make a question -- or not a question. But a comment in
17 defense of university people.

18 **(Laughter)**

19 Because it's been our experience, and it was
20 quite a few years ago now when I -- and I don't remember
21 the exact details. But there were some studies that were
22 going on and data were being collected. And then I

1 believe there were some special interest groups that
2 became aware of what was being done and were requesting
3 the data from -- you know, from the faculty member.

4 And I recall that our -- you know, our legal
5 people on campus sort of protected us from releasing that
6 data, because the faculty member at that point was not
7 comfortable in actually releasing that data because he
8 didn't feel that he could -- you know, he had confidence
9 in it at that point.

10 So sometimes, you know, there may be sort of
11 extenuating circumstances. And I don't know that that's
12 necessarily a justification for them being tardy in
13 providing the information to the granting agency. It is
14 a little bit -- or can be a little complex in terms of
15 it's not just the agency that might be looking over the
16 faculty member's shoulder on occasion. There are other
17 people who want to use the data or misuse the data,
18 depending on how you want to look at it.

19 But I'm not sure where all that is right now,
20 but I think it relates to this issue.

21 MALE SPEAKER: Well, just a quick comment. The
22 issue is not, you know -- the issue is really one of who

1 the data belongs to. And the data belongs to the public.
2 It does not belong to the researcher, although you would
3 get a lot of arguments. I mean, when I was on the other
4 side of that, I probably thought pretty vehemently for,
5 you know, don't you dare touch my data.

6 But, you know, the problem is that the
7 regulations haven't kept up with the needs. So we are in
8 the process of trying to back fill, I think. And, you
9 know, the researchers have to be given time to analyze
10 their data and to publish the correct papers and get them
11 in the literature, because they're the ones who know it
12 best and they're the ones who can interpret it best. But
13 the public does have the right to have access to that
14 data because they paid for it.

15 MR. TINSLEY: Well, that's not the issue. I
16 mean, it was a timing issue.

17 MALE SPEAKER: It's a timing issue.

18 MR. TINSLEY: Yeah, it's a timing issue.

19 MS. MULKEY: All right. But often timing is the
20 essence of the issue. Well, this has been, I think,
21 quite a terrific discussion. It is evidence that you
22 thought that at least the content, if not the glorious

1 presentations, were -- and maybe that, too -- were pretty
2 terrific, too, in terms of scope and breadth and depth.
3 This represents another step in our ongoing effort to
4 make this information more accessible and more
5 transparent.

6 It is certainly not the only step. As you know
7 from the discussion of the SOPs, they went through a
8 public comment process. They've gone through a SAP
9 meeting. They will go through a very extensive
10 documentation of how we responded to the comments and how
11 they have evolved. And we will obviously need to look at
12 the question of further additional, appropriate levels of
13 effort on our part.

14 I would say that your work here and your
15 continued work has to be a part of it, too. It can't all
16 be about things we host and the amount of hand holding
17 that we do to make these things accessible, that there
18 has to be some real mutuality and some real investment.
19 And I recognize that that represents a burden to anybody
20 attempting to invest in it, whether it is by their own
21 science resources or otherwise.

22 Joe Merenda is here and has available the

1 information that we hope you are interested in regarding
2 our budget situation, as well as our budget processes,
3 which Larry always pays attention to, and I always enjoy
4 that element of what he does.

5 MR. ELWORTH: I'm the only one who understands
6 it.

7 MS. MULKEY: But frankly, it is as important a
8 part of your understanding of what we do. Now I'm
9 mindful that it's getting toward the end of the day, and
10 there's going to be a tendency to want to drift out. I'm
11 equally mindful that this subject matter is not -- not
12 because of Joe, but because of the subject matter -- the
13 most lively available for a potential discussion.

14 What I would ask you is, if you really don't
15 want to hear it, let's just say that and we'll cut it out
16 of our program. And that's okay. We're cool with that.

17 MALE SPEAKER: I object.

18 MS. MULKEY: You want to hear it?

19 MALE SPEAKER: I want to hear it.

20 MS. MULKEY: Well, let's try to be patient. We
21 don't have a public comment remaining, so we will end on
22 time and probably ahead of time. Joe's an efficient man

1 and hopefully this will be a useful part of your program.

2 MALE SPEAKER: He's smiling. That's a good
3 thing.

4 MS. MULKEY: Joe, you missed my remarks this
5 morning about what a vital role you play in our ability
6 to keep OPP running. I won't repeat that now, but you
7 should know that we did acknowledge it.

8 MR. MERENDA: Well, thank you. I apologize in
9 advance that this was not in your folders, but let me
10 pass some copies around. And I'm sure we have more than
11 enough for everyone at the table, as well as there are
12 copies for folks in the audience to pick up later.

13 I put these items on some overheads, but I think
14 given the layout of the room, it's probably a lot easier,
15 since we'll all in a moment have the piece of paper.
16 It's only a single sheet, so there is not -- we can
17 certainly work from the piece of paper, or those who are
18 positioned in a way that you can readily see the
19 overhead, you can glance at it there.

20 I was asked to give in an overview update mode a
21 little discussion on three areas: strategic planning,
22 performance measurement and budget outlook. Let me start

1 with strategic planning.

2 Chris Saint in the last session mentioned -- he
3 called it GPRA, G P R A, the Government Performance and
4 Results Act. Under this statute all federal agencies are
5 required to develop and then to update on an every three
6 year basis an overall strategic plan.

7 EPA did its first update of its strategic plan
8 over the course of this past year. In September of this
9 year, after considering public comment on a draft that
10 was made available earlier in the year, EPA published its
11 strategic plan for fiscal years 2000 through 2005. And
12 shown there is the EPA web site where that full strategic
13 plan is available if you wish to peruse it.

14 The strategic plan does not reflect any major
15 structural changes from EPA's previous strategic plan.
16 There are still ten goals. The ones that are of interest
17 to the pesticide program are goal three, safe food, and
18 goal four, which has a longer title than I'm going to
19 use, but it's basically safe homes, work places and
20 communities. The pesticide program activities are split
21 between those two goals. And if you want to take a look
22 at the strategic plan, those are the two sections that

1 you will most want to have a glance at.

2 What sort of changes were made with respect to
3 the pesticide activities in the strategic plan? I've
4 highlighted three areas here on the slide. First off,
5 there is a change in the goal statement for goal three.
6 It's an expansion. And this is a result of comments that
7 EPA has received from a number of external parties who
8 were concerned about whether we were paying attention not
9 only to infants and children as sub-populations of
10 concern, but also other sub-populations who may have
11 higher exposures to toxic chemicals.

12 Particular interest was to Native American
13 tribes who have subsistence life styles. And so we have
14 broadened the language of goal three to make clear that
15 our assessments and our concerns under goal three include
16 those groups as well as infants and children. Of course,
17 infants and children are explicitly spelled out in the
18 Food Quality Protection Act for special attention, and we
19 continue to give that same special attention.

20 We also made some adjustments based upon our
21 experience to date under the Food Quality Protection Act
22 to the language of the objectives. Under GPRA jargon

1 there are goals, there are objectives, there are
2 sub-objectives and there are annual performance goals and
3 annual performance measures on and on. The published
4 strategic plan discussed this only down to the objective
5 level. That's the first level below the broad goals.
6 And the kinds of changes that you will see are primarily
7 date changes that take into consideration some of the
8 things that we've learned since we did the previous
9 strategic plan.

10 I'm not quite sure, since I wasn't involved in
11 the process when the previous strategic plan was
12 developed, exactly how we arrived at the statement that
13 we were going to complete our dealing with existing
14 pesticides and ensure that virtually all would meet the
15 FQPA health standards by 2005. But we realize, as we've
16 dealt with many of you, through TRAC and other forums
17 that have helped us deal with the close
18 interrelationships between the re-registration program
19 and tolerance reassessment, that we're not going to get
20 re-registration done any sooner than we get tolerance
21 reassessment done. The statutory schedule for that is
22 2006. Once we complete active ingredients, it will take

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1 us a couple of more years to complete product
2 re-registration.

3 So if you look closely at the changed objective
4 language for the revised strategic plan, you will see
5 that 2008 is now in there as the time when we say that we
6 will be done with all of that process. So basically
7 we've tried to catch up the language to what we see as
8 our actual schedule.

9 The last point which I will talk a bit more
10 about in the next slide has to do with one of the core
11 elements, at least in the concept, that GPRA and GPRA
12 watchers use as a watch word, which is outcome oriented.
13 We are constantly told that under the Government
14 Performance and Results Act we should be looking at what
15 are we accomplishing in the real world in the environment
16 with respect to public health, not how many widgets did
17 we produce in a particular year.

18 This is a major challenge for all sorts of
19 organizations, and our organization is at least as
20 challenged as others in that regard. One of the things
21 that we have attempted to do in this updated strategic
22 plan is to make some incremental advances toward more

1 outcome oriented measures. And I will talk about those
2 as we turn to the next slide.

3 I already mentioned this is a challenge with
4 which we continue to struggle. And I've listed on this
5 slide just three of the examples -- and there are a few
6 others in the updated strategic plan -- that are changes.
7 Ways in which we have tried to incorporate data that are
8 available from various sources, but not counts of things
9 that the pesticide program has specifically completed to
10 look at our progress.

11 The first instance is that we have proposed a
12 goal that is based on using the USDA Pesticide Data
13 Program data for residues on foods to look specifically
14 at the detections of residues of cholinesterase
15 inhibiting pesticides and also carcinogenic pesticides on
16 children's foods, with the idea that as we establish our
17 annual performance goals, we will use those data to see
18 how those frequencies of detection of residues are
19 changing over time -- are they in fact going down -- and
20 as a further look at whether the things that we have done
21 through the tolerance reassessment process and through
22 re-registration -- whether the impact is actually being

1 seen out there in the data.

2 This is -- as I say here in quotes, these are
3 experiments by the Office of Pesticide Programs. We are
4 working with at least the understanding internally that
5 we are trying these. We don't know which will succeed
6 and which will fail, because we find that the data really
7 don't show us what we're looking for. We think if we
8 pick ones where there are data sets that will be
9 available over the period of time we're looking at, it
10 will give us some meaningful measure. But time will tell
11 as we begin to look at these.

12 A second one that we've used is a little bit
13 less outcome oriented, but certainly a step beyond what
14 we included in the previous version of the strategic
15 plan. We previously counted -- in terms of our efforts
16 to encourage the greater use of reduced risk pesticides,
17 we basically were counting how many reduced risk
18 pesticides did we register each year. Well, we're going
19 to continue to count those and report those, and I can
20 assure you that the budgeteers within the agency, as well
21 as the Office of Management and Budget and others outside
22 the agency, still ask us, how many are you going to

1 produce each year. How many did you produce each year in
2 terms of registrations.

3 But we've added to that an effort to look at,
4 are reduced risk pesticides actually being used more
5 widely in agriculture. And we've gone through some
6 discussions. If you look at the language in the
7 strategic plan -- I've condensed it here -- we actually
8 talk about the change in the number -- or the percentage
9 of acre treatments that are from reduced risk pesticides
10 and biopesticides, the idea being that we think if
11 through various efforts that EPA and USDA and others that
12 are engaged in, if we're successful in transition in
13 encouraging the use of reduced risk pesticides, then this
14 percentage will go up over time and this will be a
15 measure of success in that part of our program.

16 We are hopeful that we will see such changes,
17 but these sorts of data on the use of pesticides are,
18 first off, somewhat hard to come by on a national basis,
19 and secondly -- at least at a fairly fine level of
20 desegregation, and secondly they are certainly subject to
21 forces that have little or nothing to do with what we
22 have done at EPA. They have a lot to do with weather,

1 with pest pressures, with economics and a variety of
2 other things.

3 So this is one of the issues that those of us
4 who have been challenged with talking about and trying to
5 apply the GPRA goal, more outcome oriented measures to
6 the pesticide program, have been trying to remind people,
7 is don't expect to see constantly increasing values of
8 these measures. You may well find that in a particular
9 year we seem to have regressed in our progress. That
10 does not necessarily mean that people are any less safe,
11 that the economy or agriculture have turned backwards and
12 are falling into evil ways or anything of that sort.

13 (Laughter)

14 They may simply be --

15 MALE SPEAKER: Recidivism.

16 MR. MERENDA: -- the result of -- recidivism.
17 That's the word I should have chosen. They simply are
18 going to be changes and we need to look over a period of
19 time. And this is something that I think the whole GPRA
20 process needs to think about -- those who review it -- to
21 look at progress and get beyond the annual reporting
22 cycle. But this is what we're trying.

1 The last example I've cited here has to do with
2 one that is even more illustrative of that, which is the
3 frequency of detections of pesticides in surface waters
4 as reported by the U.S. Geological Survey's Nocqua
5 Program. The very design of the Nocqua Program, if
6 you're at all familiar with it, is a large scale,
7 nationwide monitoring program of surface water for a
8 variety of contaminants, including quite a few
9 pesticides. But it operates on a multi year cycle.

10 They basically divided the various hydrologic
11 study units that they're considering in the nation into
12 three groups. And over -- I think it's a three year
13 period, they go from one group of study units to the
14 next. So annual data are simply not available for the
15 Nocqua Program, and we're going to be reporting on a
16 periodic, but definitely not an annual basis, with
17 respect to this.

18 But it is, at least so far as we've been able to
19 identify, the best, and for that matter the only
20 continuing data set of actual pesticide monitoring in a
21 reliable way in surface water consistently looked at from
22 year to year. So we think it's the sort of thing that is

1 tailor made for this purpose, and we're hopeful that our
2 colleagues at the USGS will continue to have the
3 resources and the commitment to carry this out over the
4 coming years so that this data source will be available.

5 We have certainly given them that feedback in
6 various sessions that they've had with other agencies
7 asking about the Nocqua Program and how it might be used,
8 and we found them quite interested in continuing to
9 provide data on pesticides to help us in this, as well as
10 our assessment activities.

11 Beyond what we have at this point in the revised
12 and updated EPA strategic plan, there is another project
13 which I'll mention which is not yet completed. The
14 Office of Prevention of Pesticides and Toxic Substances,
15 the parent organization of which the Office of Pesticide
16 Programs is a part, recognizing that outcome indicators
17 and performance measures is a tough area for all of our
18 programs, last year engaged in a cooperative agreement
19 with Florida State University to develop essentially a
20 compendium of ideas on performance measures for a variety
21 of pesticide and toxic chemical areas.

22 Their initial report is in the process of being

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1 finalized. But they have -- I guess because this is not
2 data and not something that would be published, they have
3 been maintaining a web site of their ongoing efforts.
4 And the URL is listed there. If you want to take a look
5 at what they have, it's available. Let me caveat that as
6 a cooperative agreement, this is not an EPA publication.
7 It has not been peer reviewed by EPA. In fact, it
8 changes from day to day and week to week. I haven't
9 looked at it in at least a few weeks, so there may be
10 some ideas in there that I'm not even familiar with and
11 that we may or may not agree with as useful measures.

12 In fact, I can tell you there are some that are
13 there that we looked at internally when we were doing our
14 strategic plan update and rejected as ones that we wanted
15 to try to pursue at this point, because we either felt
16 that the data were of less than the quality or
17 availability that we thought would be useful for our
18 purposes, or because we thought there were other measures
19 that we wanted to concentrate our efforts on.

20 So these are some things that we will be looking
21 at, and we're hoping that state governments and others
22 who are interested in performance indicators for programs

1 will look at and will provide further comment on. But
2 hoping that some of you may have some interest in this
3 area, we want to draw your attention to it. And as that
4 report is finalized, there will probably be some
5 mechanisms by which EPA will be soliciting further input
6 on these particular approaches.

7 So that's my spiel on performance measurement.
8 Turning to --

9 MALE SPEAKER: Before you leave that, can we --

10 MR. MERENDA: Sure.

11 MALE SPEAKER: -- ask some questions?

12 MR. MERENDA: Yeah. I think that's probably a
13 good idea rather than moving onto budget.

14 MALE SPEAKER: In this list of several
15 experiments with regard to more explicit kind of metric
16 measurables, I assume this is not the exhaustive list, or
17 is this -- is that it?

18 MR. MERENDA: This is not the exhaustive list.
19 There are a few others that you'll find in the strategic
20 plan. There is one, for example, on frequency and extent
21 of reported wildlife incidents, where we're trying to use
22 some of the data are reported to us. That's one of the

1 ones that we recognize as being a squashy data source,
2 because we don't have complete reporting. There is
3 nothing that requires people to tell us, at least other
4 than registrants under 6(A)(2). But folks in the public
5 and states, we try to encourage that reporting, but we
6 don't necessarily get everything.

7 MALE SPEAKER: Sure.

8 MR. MERENDA: And there are a few others.

9 MALE SPEAKER: I think that is a good start and
10 it makes sense. And I think your caveat about needing to
11 look at these more than year to year so that you can
12 really see realistic trends -- I believe Leonard Genesse
13 is going to release a study tomorrow that EPA has partly
14 funded kind of looking anew at pesticide use nationwide.

15 And once again, I just chatted with him the
16 other day, and he referred to the fact that, you know,
17 some of the biggest year to year differentials are
18 weather driven, you know, and also, you know, crop pest
19 pressure driven that relate to weather that is out of all
20 of our control and those kinds of things.

21 And so I think your point about looking at more
22 than just one year to the next is very important,

1 especially in these kinds of measures. But these are
2 really very good measures in the continuum, you know,
3 over five and ten year windows of time to see about
4 direction.

5 One suggestion would be, is there a way to
6 incorporate a measure of unintended consequences of
7 agency action or policy? I'm thinking -- I don't know
8 how to sort of capture that.

9 MALE SPEAKER: Bankruptcy.

10 **(Laughter)**

11 MALE SPEAKER: But, for instance, a decision --
12 bankruptcy in a pesticide company. You know, a decision
13 to grant a split registration on StarLink.

14 MS. MULKEY: (Inaudible)

15 **(Laughter)**

16 MALE SPEAKER: Just to pick one that might be
17 current now.

18 MS. MULKEY: Well, if we know about a negative,
19 we're obviously going to try to avoid it.

20 MALE SPEAKER: But this is retrospectively,
21 Marcia.

22 MS. MULKEY: That's a fair question. In other

1 words, what you -- you would have to put it in the
2 positive. Improved avoidance of something.

3 MALE SPEAKER: Right. Right.

4 MS. MULKEY: But I think that's --

5 MALE SPEAKER: Or just because you increase the
6 agricultural use of reduced risk pesticides, did it
7 result in greater soil erosion somewhere. I mean, were
8 there some other unintended consequences beyond the
9 limits of measures in these metrics? I just think that -
10 - to find some way to capture that as part of this
11 experiment, to me would give it a little more depth. But
12 that's not an easy thing sitting here to conceptualize at
13 this moment, but I would encourage that.

14 And your reference of the USGS surface water
15 pesticide detection study reminds me that the first foray
16 that USGS had in pesticide water detection was on the
17 groundwater side. And I can't remember, have they
18 continued the groundwater study?

19 MR. MERENDA: Yes, they have and that's an area
20 in which we had a number of internal discussions. And
21 there were some who were strongly encouraging us --

22 (END OF TAPE FIVE, SIDE A)

1 MR. MERENDA: -- time between what gets done in
2 terms of application of a pesticide and when it shows up
3 in groundwater. And we felt that we were better to --
4 forgive the pun -- get our feet wet with surface water
5 first and see how that worked out.

6 But, yes, USGS is continuing to monitor
7 groundwater, and those data are quite valuable to our
8 pesticide programs as we do our technical assessments.
9 But in terms of developing an indicator, we were a little
10 bit shy about how to deal with timing in a meaningful
11 way, as opposed to having people look at it and say --

12 MALE SPEAKER: You mean in terms of --

13 MR. MERENDA: -- this thing has flat lined for
14 20 years. What have you been doing.

15 MALE SPEAKER: Yeah. But in terms of sort of
16 seeing a dose response curve here in terms of agency
17 action and measurable metric response. But I think it
18 would be arguable that -- you know, I don't think it's an
19 exactly flat line. But it really actually has, I
20 believe, gotten a lot more scientific respect in terms of
21 the database, because there is still a lot of controversy
22 around the USGS approach to, you know, when you monitor.

1 You know, what time do you interpret the surface water
2 because of the variabilities during the course of the
3 annual weather cycles and so on, planting and the like.

4 MS. MULKEY: This FSU project has been designed
5 to really encourage participation of stakeholders. In
6 fact, it's a little unsettling to me if none of you have
7 heard from them, because their goal was to do a lot of
8 outreach. And they're near to the end of this sort of
9 phase, but I think they would still welcome any input.

10 MALE SPEAKER: You might want to give them the
11 list of the PPDC.

12 MS. MULKEY: Yes, we probably should have, if we
13 didn't. Maybe we did. I don't know what we did. We
14 gave them a lot of information about our stakeholders.

15 A time check for a minute. We have only about
16 nine minutes left for the whole session, which all we
17 have to do is finish this. Joe has one more slide which
18 is the budget outlook. If you two want to talk about
19 this performance measurement issue, then let's take your
20 comments, but keep them, you know, so we can finish and
21 then have a little bit of time for discussion of
22 everything.

1 I don't know who came up first, so we'll go with
2 Bill.

3 BILL: As someone who has lived through more
4 objectives, goals, strategies, measures and tactics than
5 I would ever care to, I was a little concerned on the
6 measures, in that these seem like things that are out of
7 your control. And so I would encourage you to -- I like
8 measuring widgets. You know, I mean, it's pretty easy to
9 do, and it's pretty impactful. I think it's meaningful
10 in a lot of ways, at least to people around here.

11 MS. MULKEY: We're not stopping with measuring
12 widgets.

13 MR. MERENDA: Yes. Let me encourage you to take
14 a look at the actual strategic plan. You will see that
15 we have kept the widgets. And you're exactly right in
16 saying that these are out of our control. That's been a
17 source of considerable concern to various folks within
18 our program, as well as others in other agencies who are
19 dealing with GPRA. The concept of looking at what is
20 happening broadly in the environment is generally out of
21 the control, or it's certainly not directly managed by
22 what we do.

1 And it is a philosophical difference that we're
2 a little bit concerned that those who view GPRA as a way
3 to decide where the dollars need to be spent may forget
4 about that distinction and say, oh, well, the dollars
5 that we've been spending in this program area isn't
6 buying anything. Let's spend them somewhere else where
7 we buy something real for our dollars.

8 But we're trying to kind of thread our way down
9 the middle path here, and as I said, experiment with some
10 of these measures while keeping widgets.

11 BILL: I think given -- yeah. I think given
12 that some of the stuff is not in your control and having
13 not seen the plan, I'm not sure about this. But I would
14 just make real sure, since they're not really in your
15 control, that they ramp up through your OGSM or whatever
16 your term is for it, in that these measures relate to
17 tactics that relate to strategies and objectives and
18 goals.

19 MS. MULKEY: Larry?

20 MR. ELWORTH: Yeah. I would -- I think it's
21 real important to distinguish between these as goals or
22 objectives and as measurements. I mean, in a sense this

1 isn't so much a performance measure in terms of output,
2 but as you were suggesting, an outcome or a result of the
3 performance of the agency. So in that sense, you know, I
4 would echo kind of what Bill said, but I just don't think
5 this is a useful process. And we struggled with this at
6 USDA. You can say we granted 10 million dollars in
7 money, but what did that result in on the ground. So I
8 think this is useful as long as you say that these are
9 ways we're going to look at the effectiveness of our
10 program and not set as goals.

11 The other thing in hearing what Jay was
12 suggesting -- and there are a lot of questions that come
13 up in this. What are you using as a benchmark. Are you
14 looking at decreased levels or decreased numbers. This
15 is the kind of thing that I think having either this
16 group or some group of people to sit down and talk with
17 you about, either in the development and/or looking at
18 the results at the end of the year. It would be a real
19 interesting discussion for you folks in deciding which
20 experiments work and don't work and how do you cast them.

21 And I think it would be interesting for people
22 in the affected communities to look at this and say,

1 okay, well, here's what we think happened from what you
2 folks did. It would certainly identify unintended
3 consequences and give you some sense of what context
4 these fit into. But whether you do it through us or some
5 separate workshop, I think it would be a real interesting
6 thing for public involvement.

7 MS. MULKEY: We're supposed to be trying to
8 enhance our public participation in strategic planning.
9 And we are trying.

10 MR. MERENDA: I'm very pleased to hear that
11 suggestion, because I for one, and I think my colleagues
12 who worked on this, would welcome the opportunity to
13 engage in some dialogue on these. I guess it probably
14 comes as no surprise to those of you who have been
15 through similar processes that often the process is a
16 hurry up and wait one, where there is a short period of
17 time where one has to generate something, and then there
18 is a long period of time and then all of a sudden it
19 springs forth into the public.

20 But we're viewing this as something that we're
21 engaged in for the long term. And so while we will
22 probably change some of these, I think it would be very

1 useful to have some discussion as we get through our
2 first round of reporting against these measures with the
3 PPDC or a subgroup of the PPDC who is interested in
4 talking about that and get some feedback so that we can
5 move ahead with it.

6 MS. MULKEY: Okay. Do you want to do the last
7 piece?

8 MR. MERENDA: Yeah.

9 MALE SPEAKER: Can I ask -- make one point
10 before you do that?

11 MS. MULKEY: Yeah. I'm sorry, Phil. Go ahead.

12 MR. BENEDICT: I would encourage you to go back
13 and look at groundwater. Your agency spent millions of
14 dollars doing state plans for groundwater issues. You
15 built a capacity for monitoring groundwater as generally
16 not event driven. Surface water tends to be. I think
17 it's really a much better indicator.

18 In our state, we still find detections. But
19 they tend to be very low, and I think a lot of that is
20 based on analytical equipment -- better analytical
21 equipment today. I really think you've got a good
22 example to show how your program has been successful. I

1 think there is an awful lot of data out there collected
2 by states and other people that could show that.

3 I think detection is not a very good indicator.
4 We have groundwater standards. We have MCL health
5 advisories. Some states have PALs. Using some of those
6 kinds of criteria in looking at what's happened over time
7 I think would be real important. You also need
8 regulatory decisions that were made to impact some
9 chemical use on groundwater. And I think you can
10 demonstrate measurably that these impacts have been real
11 based on the regulatory decisions. I think it's a great
12 opportunity for you to show a success story that you're
13 not dealing with them perfectly.

14 The other one I would mention is I think you've
15 got one on the horizon that I don't think you're dealing
16 with. That's West Nile virus. The spray programs are
17 going to continue, I think, for a while with that. And I
18 guess my biggest concern is I've sat in on some of the
19 CDC calls. And we're talking about using in some cases
20 OPs there. Now you talk about exposure to people, with
21 OPs there is one way to really increase it is to spray
22 populations.

1 So there is a big debate going on. What's going
2 on in your agency has been kind of sitting on the back
3 fence. You've got laid on the table everything that's
4 registered. But just laying -- I don't think that's the
5 way to do business today. I think you need to lay on the
6 table everything that is registered and then help other
7 people that don't have the expertise you have make
8 decisions about which of those products are probably the
9 more appropriate ones to be used today in some of these
10 kinds of environments.

11 MS. MULKEY: Well, we can talk about that at
12 some length. But the short form is, we have been very
13 active, and our regions have been very active, in working
14 with the people faced with the West Nile virus to focus
15 on early prevention and larvacidal control. So I think
16 we're not as passive as you just said.

17 MR. BENEDICT: Well, I hope not. I'm talking
18 about this whole plan, though, to spray the whole
19 northeastern corridor.

20 MS. MULKEY: Well, there is a --

21 MR. BENEDICT: And that's the part that bothers
22 me.

1 MS. MULKEY: -- sort of worse case scenario plan
2 CDC has developed. That's true. But they have worked
3 with us on that and it's not -- it is a last resort plan.
4 It's not a first resort plan.

5 Let's get the last slide in.

6 MR. MERENDA: Budget Outlook. I guess with most
7 things, there is some good news and some bad news. If we
8 had little icons here, there would be a generally smiling
9 face for 2001 and a very quizzical face for 2002, would
10 be my short statement of what's here. Basically we have
11 in the 2001 budget, a modest increase in dollars that are
12 available to us, but a small decrease in staff.

13 MALE SPEAKER: That means you're making more
14 money, right? Congratulations.

15 MR. MERENDA: No.

16 MS. MULKEY: Not salary dollars.

17 MR. MERENDA: Not salary dollars, unfortunately.

18 MALE SPEAKER: Oh.

19 MR. MERENDA: But what it does mean is that we
20 are under continuing pressure to find ways to do even
21 more through extramural vehicles than we have been doing
22 to use our staff -- the federal employees -- more and

1 more to manage contract activities in order to get the
2 work done, rather than doing the work directly
3 themselves. But that is an ongoing thing.

4 MS. MULKEY: At the margins. At the margins.

5 MR. MERENDA: At the margins.

6 MALE SPEAKER: What are you saying? You have
7 more contract funds for registration and tolerance
8 reassessment?

9 MS. MULKEY: Yes.

10 MR. MERENDA: Yes.

11 MALE SPEAKER: But you don't have -- what
12 happened to -- what happened? Why did you get a staff
13 decrease?

14 MR. MERENDA: The agency as a whole has been
15 told by the Congress that the EPA will have -- and I
16 forget the number, but it's something like 1,200 fewer
17 employees at the end of 2001 than it had at the end of
18 2000. And the pesticide program -- we certainly aren't
19 going around saying the sky is falling, because we have
20 been spared pretty much from having to take actual
21 reductions. But we definitely have had no growth, and
22 we've had marginal reductions as part of the across the

1 board impact.

2 MR. ELWORTH: Okay. So that 16 million dollars
3 you got when FQPA passed --

4 MS. MULKEY: Well, we're not declining from
5 before FQPA. We're talking about -- this is from 2000 to
6 2001.

7 MR. ELWORTH: How much below the President's
8 request is it?

9 MR. MERENDA: We're pretty much at the
10 President's request for the registration, re-registration
11 and tolerance reassessment activities. One of the odd
12 quirks of this -- and that's what is indicated by the
13 third bullet -- is areas that we're not protected in the
14 budget jargon in this process end up having to absorb
15 what is called the general reduction. And in this
16 particular instance, EPA had an overall general reduction
17 of some 46 million dollars plus, of which roughly 10
18 percent fell upon OPPTS, and about half of that on OPP,
19 all of which had to be absorbed from areas other than
20 registration, re-registration and tolerance reassessment.

21 So, for example, areas such as certification and
22 training, or worker protection, basically we're trying to

1 keep them as much as possible at our FY 2000 levels. In
2 some instances we're actually going to have to reduce
3 them somewhat below the FY 2000 levels and absorb a
4 general reduction.

5 But if you look at it overall, the big picture,
6 we're up on dollars. We're slightly down on staff.

7 MS. MULKEY: Program wise.

8 MR. MERENDA: Program wise.

9 FEMALE SPEAKER: Joe, how about STAG money?

10 MR. MERENDA: STAG money is straight line.
11 Thank you. That is a good point.

12 FEMALE SPEAKER: And STAG money is the money
13 that goes to states and tribes to fund their partnership
14 grants.

15 MR. MERENDA: Yes. State and Tribal Assistance
16 Grants. That's what it stands for. And the salary money
17 is really part of the whole picture, and there are, of
18 course, yearly increases, cost of living increases and so
19 forth which cause a regular shift of money from the
20 contracts and grants into salaries. In this case, we
21 have enough increase in the dollars that we actually have
22 more dollars available for contracts and grants in 2001

1 than we had in 2000 for registration, re-registration and
2 tolerance reassessment activities.

3 Now you mentioned, Larry, the 16 million
4 dollars, which is a great lead in to my last bullet, and
5 I'll just come back to the next to the last one in a
6 moment. There was -- you're referring to the
7 registration maintenance fees. Under FQPA they were
8 extended at 16 million dollars for fiscal years '97
9 through 2000. They dropped to 14 million dollars this
10 year and 2001. And they end abruptly to zero in 2002,
11 which is why in part we say that for 2002 it's too early
12 to discuss, because there is no President's budget
13 request yet. That doesn't happen until January, and
14 perhaps with the new administration coming in, there will
15 be --

16 MALE SPEAKER: Presumably.

17 MR. MERENDA: Presumably. But even before the
18 current delays, the federal government has been
19 proceeding with what they're calling a current services
20 budget, and then assuming that the new administration,
21 whichever one it is, will seek to deal with their own
22 directions and initiatives subsequent to coming on the

1 scene. So we don't really know, nor could we even if we
2 did know talk about it at this point where the
3 administration is headed on 2002.

4 But we do know that expiration of the
5 registration maintenance fees is a big issue for the
6 pesticide program. Those maintenance fees pay for the
7 salaries of over 200 of our 835 approximately employees,
8 so 25 percent of the folks who do pesticide work are paid
9 for by those funds. And I can assure you that EPA's
10 Controller's office and the Office of Management and
11 Budget and many others are well aware of this problem and
12 are thinking about how they're going to deal with this
13 problem. And I don't know how it's going to get dealt
14 with. I'm not sure anybody else knows yet how it's going
15 to get dealt with. But we are certainly hopeful that it
16 will be dealt with.

17 The next to the last bullet is, I guess, an
18 example of how one of these things does get dealt with.
19 In the 2001 budget the administration decided that
20 because we were expected to issue the new tolerance fee
21 rule after October 1st of 2000 -- because Congress had
22 told us we would not -- we could not do it before then --

1 the President's budget request actually offset our
2 appropriation request for the pesticide program by seven
3 million dollars based on the anticipated fee collections
4 under the new tolerance fees.

5 Well, as many of you probably know, when the
6 Congress enacted EPA's appropriation bill, they said no,
7 you will not finalize the tolerance fees and the agency
8 will, nonetheless, fund the pesticide program at the full
9 amount previously expected. And so part of that 46
10 million dollars of general reduction I mentioned a few
11 minutes ago was seven million dollars that basically the
12 agency had to eat from its overall appropriations to
13 fully fund the pesticide re-registration activities to
14 make back that seven million dollars. We're hoping
15 that's not what happens for 14 million dollars next year,
16 because that will hurt even more.

17 MS. MULKEY: One thing that might be worth
18 mentioning -- and I don't want to be an alarmist or
19 anything. But when you have funds that fund personnel,
20 should those funds be eliminated, you don't and can't
21 simply eliminate those personnel because of the way the
22 personnel system works. There is actually an agency wide

1 impact about how you de-occasion personnel.

2 But in the short term, you scare the hell out of
3 everybody, because it's not like you frighten the 200
4 people who are funded by this. You create a dynamic,
5 which -- and that has obviously impacts on the ability to
6 get work done and a lot of other things.

7 So the uncertainty associated with this has a
8 cost. And the actual impact, of course, would be -- you
9 would sort of be able to measure it eventually, but the
10 impact of anticipation is a very troublesome impact.

11 MR. VROOM: Would it be helpful if those of us
12 who represent the industries who are paying those fees
13 now would try to draft a letter to you or someone at the
14 agency, just indicating that, you know, we generally are
15 supportive of and re-authorizing, you know, the --

16 MALE SPEAKER: Hasn't that already been done,
17 though the congressional appropriations process?

18 MR. VROOM: This is not an appropriations
19 question. This is an authorization question.

20 MALE SPEAKER: But they made that comment in the
21 appropriations bill.

22 MS. MULKEY: This past bill was silent on this

1 issue.

2 MALE SPEAKER: Right.

3 MS. MULKEY: I don't think we would be
4 comfortable inviting a letter like that.

5 **(Laughter)**

6 MR. VROOM: Okay. Clearly, certainly ACPA plans
7 to be an advocate for extension of that authority, even
8 though it probably means prying open FIFRA a tiny little
9 bit this year, which we would probably rather not do
10 otherwise.

11 MS. MULKEY: Well, I think that certainly the
12 Congress always wants to know how affected entities of
13 all sorts carry it out. But it's not our --

14 MALE SPEAKER: Speaking to the point you're
15 raising -- and I've heard you and your predecessor and
16 many others say the same thing over time, that there is a
17 concern among EPA employees generally about this kind of
18 a deadline coming and nervousness that it creates.

19 MS. MULKEY: There is a potential for it. I
20 mean, part of my job is to try to be a responsible
21 leader, which means on the one hand not to tell people
22 don't worry, be happy, unless I'm confident that they

1 could not worry and be happy. But on the other hand, to
2 prevent unnecessarily alarmist reactions, we do have
3 responsibilities. And, you know, it's dicey to even say
4 something in a form like this, because you don't want to
5 create a monster. I will say that our work force for
6 today is very focused on getting the work done, and there
7 is not a lot of current undercurrent of alarmism. But
8 it's early days yet in the fiscal year.

9 We've eaten up all our time. It's great that
10 there has been as much enthusiasm around this topic as
11 there has been. I don't want to cut off any discussion.
12 Our time is your time. What I would like to do is see if
13 there are any tent cards that would like to continue this
14 dialogue. And if not, we will adjourn until tomorrow.
15 There will be some opportunities tomorrow, so that if
16 this is a topic where you want to continue, there will be
17 some chances.

18 MR. ELWORTH: Well, Marcia, I would like to know
19 a little bit more about this budget stuff.

20 MS. MULKEY: Joe is available to you at any time
21 and he's on top on this.

22 **(Laughter)**

1 MR. ELWORTH: Thank you, Joe.

2 MS. MULKEY: We can go into this -- it's mind
3 numbing, this general reductions, blah, blah, blah. And
4 there is sort of the story behind the story behind the
5 story. But the bottom line is that there is a very
6 modest net income in our dollars after all the dust
7 settles that is real, and we don't expect any program to
8 suffer significantly below 2000 in the internal dominos.

9 In other words, we're not going to have a big
10 wholesale cut. There may be some programs that were
11 funded at a million last year that are going to be funded
12 -- non-protected programs -- at what, 900 K or something.
13 But for the most part, we are in a steady state
14 everywhere and material growth in dollars in these big
15 ticket items.

16 MR. ELWORTH: Yeah. I'm interested at some
17 point in knowing what the general trends are. You know,
18 was it two years ago or three years ago all the hits you
19 took in cuts and you had to take all the --

20 MS. MULKEY: Right. This is definitely --

21 MR. ELWORTH: So I'm interested in what's going
22 on.

1 MS. MULKEY: This is a far better year for us
2 than last year. Last year it was a real cut.

3 MALE SPEAKER: Yeah.

4 MS. MULKEY: A real cut. This year it's a real
5 increase.

6 MALE SPEAKER: Uh-huh.

7 MALE SPEAKER: This year being the current
8 fiscal year?

9 MS. MULKEY: The year that started in October.

10 MALE SPEAKER: Right.

11 MALE SPEAKER: Okay.

12 MS. MULKEY: Okay. Well, have a nice evening.
13 See you all bright and early, bright eyed and busy
14 tailed. What time do we start tomorrow? Nine.

15 (END OF MEETING)

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3 Transcript of
4 Pesticide Program Dialogue Committee Meeting
5 Radisson Hotel-Old Town
6 901 North Fairfax Street
7 Alexandria, Virginia
8 November 30, 2000
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19 ATTENDANCE LIST

20 Panel Members

21 MARCIA E. MULKEY

Chairperson

22 Director, Office of Prevention,

For The Record, Inc.
Waldorf, Maryland
(301)870-8025

1 Pesticides and Toxic Substances
2 SUSAN WAYLAND Acting Assistant Administrator
3 Office of Prevention, Pesticides
4 and Toxic Substances
5 JAMES V. AIDALA Assoc. Assistant Administrator
6 Office of Prevention, Pesticides
7 and Toxic Substances
8 STEPHEN L. JOHNSON Deputy Assistance Administrator
9 Office of Prevention, Pesticides
10 and Toxic Substances
11 MARGIE FEHRENBACH Designated Federal Officer
12 Office of Pesticide Programs
13
14
15
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17
18

19 Day Two

20 November 30, 2000

21 PROCEEDINGS

22 - - - - -

For The Record, Inc.
Waldorf, Maryland
(301)870-8025

1 CHAIRPERSON MULKEY: Good morning, all. It is
2 9:00. Time for your friendly PPDC meeting. Because it
3 is the first time we sit down together, I will,
4 notwithstanding my Martinet-type of approach to getting
5 things going on time.

6 We do want to acknowledge the arrival of some
7 folks who weren't here yesterday. That doesn't include
8 Jim who was here yesterday, but he may have some opening
9 thoughts. Have you?

10 MR. AIDALA: No, just to say I truly honestly
11 planned to be back for a large part of yesterday, and a
12 number of things ate my homework. I'll put it that way,
13 so I apologize.

14 MS. MULKEY: We're glad to have you this
15 morning. We note that Theresa Murtagh is here.

16 MS. MURTAGH: Good morning.

17 MS. MULKEY: From the Department of Agriculture.

18 MS. MURTAGH: Subbing for Al.

19 MS. MULKEY: A note to raise. Jenny Taylor,
20 the Pest Management Regulatory Agency of Canada is here.
21 She faithfully attends a lot of our stakeholder sessions.
22 Beth Marshall, PPDC member, has been able to join us.

1 And we do expect some folks who were not here yesterday,
2 other members, but I don't yet see them.

3 UNIDENTIFIED MALE: Ray, Bill and Jay are in the
4 hallway.

5 MS. MULKEY: Yeah, they were all here. So it's
6 time without further ado to kick off this morning
7 session.

8 We have allocated almost two hours to this
9 session as well. We hope that we can keep our
10 presentations a little briefer than we did for
11 residential. So we still have the full hour of
12 discussion.

13 We're going to start with an overview of the
14 Risk Assessment Process for Workers. This is something
15 that we have presented in a number of fora, but we hope
16 it will be useful to you.

17 Then we have a discussion of a portion of the
18 public participation process, that is, the conference
19 calls, because there's an interest in worker/community
20 participation in that.

21 And I don't know whether we anticipate some
22 attendance by some folks with a particularly keen

1 interest in that. But what we might do is flip that with
2 the national assessment to maximize the availability of
3 folks who have a particular interest in that.

4 And then Kevin Keaney is going to talk a little
5 bit about the work that the Agency has going on with a
6 number of stakeholders involving a national assessment of
7 the Work Protection Program. And that has to do
8 primarily with the implementation of the Work Protection
9 rules.

10 So those are the various pieces of this puzzle
11 that we plan to talk about. And then we will hopefully
12 have a good, healthy discussion from you guys.

13 So, who's going to kick us off? Jim, okay, very
14 good.

15 MALE SPEAKER: Good morning and thanks for the
16 opportunity to be here. Today, I'd like to give an
17 overview of how we do worker risk assessments. I'll
18 touch on how the numbers are crunched, the data we use,
19 where we get the data, and where we see ourselves going
20 in the future.

21 I found this 1972 quote from President Nixon a
22 few weeks ago and thought it was a good way to start

1 today's discussion. It says, "Essential to a sound
2 national pesticide policy are measures to ensure that
3 agricultural workers are protected from adverse exposures
4 to toxic chemicals."

5 I think this is important to focus -- because it
6 focuses us on how we got to where we are today. We've
7 been active in the area of worker protection for many
8 years and have continually built on our long-standing
9 partnerships with stakeholders to improve our process.

10 We also recognize that under FIFRA, worker
11 protection is a balancing act between risk and benefits.
12 The Agency and you, the stakeholders, struggle with this
13 on a daily basis.

14 In our worker risk assessments, we look at two
15 major groups of exposed people. The first are those who
16 are involved with applications and we generically call
17 these people handlers. You can see in this picture a
18 pilot making an application. And for this kind of use,
19 we would look at the exposures to the pilot and also to
20 the person who loaded up the aircraft.

21 And for handlers, we look at a variety of other
22 industries, not only but agriculture -- not only

1 agriculture, but many others including the nursery and
2 landscape industry, structural pest control people, uses
3 on animals.

4 For example, a lot of USDA and veterinary uses,
5 public health uses like mosquito control, forestry, and
6 then of course lawn care and golf course industry. And
7 we know that there are people in each of these industries
8 that are exposed, so we do consider them in our risk
9 assessments.

10 In the second group, we really consider in our
11 assessments are people that are exposed because they have
12 to work in areas that are previously treated with
13 pesticides, and we call these generically re-entry
14 exposures.

15 And you can see someone in this picture
16 harvesting apples. And for this kind of use, we would
17 consider the exposures to the harvester, but also many
18 other activities that, for example, would be associated
19 with the cultivation of apples like thinning, for
20 example.

21 And again, we not only look at uses and
22 exposures in agriculture, but a variety of other kinds of

1 industries. For example, people who do golf course
2 maintenance, and particularly people in the nursery
3 industry and floral culture, looking at doing cut flowers
4 and those kinds of things.

5 So what now I would like to do is kind of focus
6 in on -- highlight some of the details about how we do
7 this, the data we use, how we crunch the numbers and
8 where we see ourselves moving in the future.

9 This slide just shows the kinds of monitoring
10 data that we use. When we monitor workers, one of two
11 methods are generally used. The first measure is what
12 can get on the skin or can be inhaled. And we measure
13 what gets on the skin using patches or long underwear,
14 except for the hands and the face.

15 In the hands and face, we measure with
16 collecting, for example, wash water on the hands. We can
17 also look at exposures by collecting urine and the amount
18 of chemical residues that are in urine.

19 And then for the re-entry exposure, we also look
20 in the areas that have been treated previously, what can
21 rub off on the skin. And we measure this with what's
22 called a dislodgeable foliar residue from the surfaces of

1 the plants.

2 Along with the exposure data, there are many
3 other key building blocks in the process. And we have
4 built on many longstanding partnerships to get this kind
5 of information. We've worked very closely with many
6 organizations to better our process and this slide just
7 illustrates some of the types of organizations we've
8 worked with to get this information.

9 For example, we've worked very closely over the
10 last few years with USDA and the Health and Human
11 Services to get information about actual cultural
12 practices. And then, for example, with HHS to get
13 information about mosquito control issues.

14 And we've also worked very closely with
15 different registrant task forces, like the ARTF, which is
16 the Agricultural Re-Entry Task Force. And we've actually
17 provided technical oversight for them for about the last
18 six years since the inception. And I'll talk more about
19 what the ARTF is in a little while.

20 And then, of course, with the Phase VI, the six
21 phase process we're doing that we piloted and started
22 with the organophosphates. We've worked a lot with a

1 variety of different commodity organizations and other
2 groups like Bob's group. And then, of course, with the
3 public interest groups as well in the same Phase VI
4 process.

5 Another key element to our risk assessments is
6 getting better information on use and usage and how
7 chemicals are involved with actual agricultural
8 practices. And again, we rely on our partners to provide
9 this kind of information.

10 And this is some of the sources of information
11 that we've routinely used over the years, different
12 government and industries surveys, for example the NAS
13 information and the census of agriculture. Of course,
14 any information we can get from Extension Services, the
15 stakeholders through the current public participation
16 process and other activities.

17 For example, this very moment, some of our
18 colleagues are meeting the National Ag Applicators
19 Association to talk about getting more use and usage
20 information.

21 And then of course, the different literature in
22 the trade press, for example, we might look at how

1 equipment types and engineering components of equipment
2 that's available now would affect exposures and that's
3 where we get that kind of information, and also the
4 different product labels.

5 The other two key factors on this slide are we
6 look at what's typical use and that's the -- try to get
7 as much information as possible to try to account for
8 most of the kinds of practices that are going on in
9 agriculture, for example. But we also have to look at
10 what's allowable by the label to make sure that when we
11 let a label go, that it's protective.

12 UNIDENTIFIED MALE: Jim, do you know our
13 handouts are real different from these?

14 UNIDENTIFIED MALE: Not real, just.

15 UNIDENTIFIED MALE: Well, mine is. Maybe I got
16 the only one. No, okay. I just --

17 UNIDENTIFIED MALE: I didn't know that. I
18 apologize.

19 UNIDENTIFIED MALE: No, don't apologize.

20 UNIDENTIFIED MALE: He's easily confused.

21 UNIDENTIFIED MALE: He's got the Palm Beach
22 version.

1 UNIDENTIFIED MALE: They're fine. Actually
2 there's more stuff.

3 UNIDENTIFIED MALE: Yeah.

4 MALE SPEAKER: Okay. The other -- more
5 information. The other issue is the Agency has developed
6 a science policy paper on this issue and I just put the
7 web site on this slide. So if you want to get that and
8 read more detail about it, you could find that at this
9 location.

10 I think what I'd like to do now is to focus in
11 on how we're actually doing these risk assessments and
12 for the handlers, and remember that's the people involved
13 in the application. This slide just shows how we
14 actually calculate handler exposures. And you can see
15 that exposures are related to how much can be treated in
16 a day which is the acres term right there. The
17 application rate, and again, which we get from the label
18 or, you know, we also use typical use information when
19 it's available and what people weigh.

20 And then the other factor that everyone is
21 interested in is the exposure values. And we get these
22 exposure values from actual measured workers and the

1 exposures depend on the kinds of products they used.

2 For example, the exposures will be different for
3 someone using a liquid or a dust formulation. What kind
4 of equipment they use in the application, the exposures
5 would be, let's say different from somebody using a
6 ground boom sprayer versus an airblast sprayer. And also
7 whatever kinds of protective equipment they use. If
8 someone uses, let's say, gloves or a closed cab tractor,
9 that would lower their exposures.

10 And the other, I guess, the real key factor here
11 is that we believe these factors impact exposures, let's
12 say more than the identity of the chemical active
13 ingredient when you're making applications.

14 We prefer to get our exposure estimates from
15 data that are specific to the use pattern. And for each
16 chemical that we're looking at in our process, we don't
17 have this specific information many times so we rely on a
18 system called the pesticide handler exposure database for
19 these estimates many times.

20 And I'd like to focus on what PHED is now
21 because it's used so often. PHED is actually one of the
22 best examples of the Agency working in partnership with

1 various stakeholders and other organizations. It was
2 developed by us starting in the mid 80s along with Health
3 Canada and California Department of Pesticide Regulation
4 and then various industry companies are involved.

5 We recognize, however, that there's always room
6 for improvement and we've recently started an initiative
7 to upgrade this system through ACBA and the working group
8 with Health Canada and the California DPR.

9 Okay, PHED, it's a database that contains real
10 data from monitored workers and it has data in there from
11 a variety of different application methods, levels of
12 personal protection and a variety of products. And it
13 can be used, and this is how we use it to provide
14 different exposures based on the protection level used,
15 how it was applied and the type of product.

16 And we generically call these scenarios in our
17 risk assessments. And currently in the system, it has
18 information from 1,700 or so monitor workers from a
19 hundred different studies, give or take.

20 The next couple of slides just illustrates some
21 of the scenarios that we -- that are included in PHED.
22 You can see in this slide an airblast application in

1 apples. We measured -- we have measured exposure data
2 that shows if a person is using a tractor with no cab and
3 they wear normal work clothing, when they use this kind
4 of equipment, that they're unit exposure -- that's how we
5 term the values that come out -- are 0.36 milligrams per
6 pound AI applied.

7 Now, we also have measured exposure data with
8 different levels of personal protection. So if they
9 would make this kind of application, let's say, with a
10 tractor with a cab, their exposures would be lowered and
11 the monitor data show that and the value we get is 0.019
12 milligrams per pound AI applied. And keeping in mind
13 that these values are all real measured data.

14 UNIDENTIFIED MALE: Are these the amount of
15 chemical on the clothes or on the person?

16 MR. AIDALA: It's what would be on the skin
17 underneath --

18 UNIDENTIFIED MALE: I mean goes --

19 MR. AIDALA: What goes through the cab.

20 UNIDENTIFIED MALE: What goes through the long
21 pants and the long sleeved shirt.

22 MR. AIDALA: Right. Going through the long

1 pants and the long sleeves, on the skin or, you know,
2 going through the cab and then going through the long
3 pants and the long sleeves and then gets on the skin.

4 In this slide, this slide just shows another
5 scenario. And this is a closed cab tractor with a ground
6 boom sprayer. And again, we have measured data for this
7 scenario where people with a tractor with no cab, for
8 example, wearing normal work clothing, their exposure
9 would be 0.014 milligrams per pound.

10 And if they use a tractor with a cab, again, you
11 see from the data that the exposures are lowered and the
12 value we have there is 0.005 milligrams per pound AI
13 applied. And again, it's based on real monitored data.

14 I said earlier that we were -- had initiated a
15 process to improve the database and upgrade the database.
16 And some of the improvements we'd like to make are to
17 make better use of the data. For example, you know,
18 eventually we want to move to a probabilistic type of
19 approach for doing worker risk assessments.

20 We want to expand and strengthen the data. We
21 want to look at areas where we feel we need more
22 information such as high acreage treatments for aerial

1 application and try to get that kind of information. And
2 then we want to address some of the uncertainties with
3 the different measurement methods.

4 Because like I said, we have a hundred different
5 studies with pretty much as many different investigators
6 and labs and they all do things a little bit differently.
7 So we want to make sure that, you know, we address some
8 of those differences and how we use the data.

9 What I'd like to do now is kind of switch gears
10 and talk about how we do post-ap risk assessments or the
11 re-entry portion. And this slide just shows the equation
12 that we use for these kind of calculations. And you can
13 again see that the exposures related to how much time
14 people work each day and what they weigh. And those are
15 pretty standard factors.

16 And then the exposure values we use are from
17 actual measured workers again. And they depend on the
18 amount of contact that people have with the treated
19 plant. And this is related to what they're doing, the
20 kind of job they're doing and the kind of plants that
21 they're working with.

22 And this is called the transfer coefficient.

1 And we have different transfer coefficients that we use
2 for different kinds of jobs and different crops.

3 And the exposures are also related to how much
4 is on the surface of the plants that they work in, how
5 much can rub off on their skin, and we call this the
6 dislodgeable foliar residue again.

7 And these calculation -- this calculation here,
8 this is the basis for the restricted entry interval
9 proposals that you see in the risk assessments.

10 These next couple of slides just illustrate some
11 of the different transfer coefficients that we use. You
12 can see in this slide people harvesting lettuce. And we
13 have measured data that we use and it shows that the
14 transfer coefficient for this scenario is 2,500
15 centimeters squared per hour.

16 And we use this information to address the same
17 kinds of activities in similar crops, like someone
18 harvesting collards or kale -- (inaudible). And again,
19 keep in mind, these are real measured data.

20 And this slide just shows another different
21 transfer coefficient for someone harvesting apples. It's
22 3,000 centimeters squared per hour. And again, we would

1 use this for different similar crops with similar
2 activities like peaches and pears, for example.

3 And again, this is -- I actually took this at a
4 exposure monitoring study conducted by the ARTF last
5 year. So this is actual data point that we are using.

6 In this slide is just a kind of graphical
7 representation of the kinds of calculations that we do.
8 And you can see that as time goes by, that the FR data
9 dissipate and then the corresponding exposures get lower
10 and I'll walk through the slide here a second.

11 So on this axis, you have the DFR levels in
12 units. And the units we used for them is micrograms per
13 centimeter squared. And then this -- the Y -- the X axis
14 is the days after application. And this is actually a
15 real data set. And you can see that over time, the DFRs
16 dissipate and then we calculate exposures for each day
17 after application with a transfer coefficient. That's
18 where we get the exposure values from.

19 And this -- the red line is just a higher
20 application rate than the blue line. I think the red
21 line is four pounds an acre. And then the blue line is a
22 pound and a half per acre. So that's why there are

1 differences in the curves there.

2 UNIDENTIFIED MALE: It would be interesting if
3 the data didn't.

4 MALE SPEAKER: All right. The re-entry exposure
5 areas, an area where we're doing -- getting a lot of
6 different kinds of information and the major source of
7 this information is the Agricultural Re-Entry Task Force,
8 or ARTF. And this is a large industry group that was
9 formed about six years ago, I think. And it has 30
10 members and it's in the process of developing this
11 extremely large information source.

12 And some of the kinds of information that
13 they're generating is a large grower survey where I think
14 they surveyed 96 different crops in 16 regions of the
15 country. And this survey helps us to understand actually
16 the kinds of activities that are being done in
17 agriculture. You know, when they're done, the frequency,
18 and actually what they're doing.

19 And they've also developed a large set of
20 exposure data. I think it's about 70 different crop and
21 job combinations that they're developing transfer
22 coefficient values for. And we're using these data now

1 as they come in. And we've actually used these new
2 transfer coefficients as much as possible, for example,
3 with the current organophosphate process.

4 So, now I think I'd like to just talk about
5 where we see ourselves going in the future. I think
6 we've come a long way, but there's always a lot of --
7 there's always room for improvement.

8 In this slide -- illustrates some of the steps
9 that we will be taking in the future. And we believe
10 that these will make our process better and more
11 informed. And the major efforts that we see happening in
12 the near future are we want to make the most use possible
13 of the ARTF data. We want to complete our initiative to
14 upgrade the pesticide handler exposure database. And we
15 want to collect more exposure and use information,
16 particularly use information.

17 We'll also be making a major push to use data --
18 the kinds of data that Chris Saint talked about yesterday
19 from ORD. For example, where we want to incorporate
20 things like the agricultural health study which is being
21 done at NIOSH and some of the ORDs work with farm worker
22 children, and as far as consideration in our risk

1 assessment process and decision making process.

2 And just some final thoughts. I -- we believe
3 that we do quality risk assessments with the information
4 that we have, but we believe that, you know, there is
5 room for evolution and improvement.

6 And we believe that some of the key challenges
7 for us are to remain current with the trends in
8 agriculture and also with risk assessment science because
9 it's a rapidly evolving field. And we want to build on
10 our long history of partnerships with the stakeholders to
11 move forward. So if you have questions?

12 MS. MULKEY: Before we're taking clarifying
13 questions, I want to greet and welcome Dr. Zuroweste.
14 Have I pronounced it correctly?

15 DR. ZUROWESTE: Correct.

16 MS. MULKEY: Jim mentioned yesterday, Dr.
17 Zuroweste is a new member of PPDC. He is a family
18 physician with a focus on, among others, farm workers and
19 their health issues from nearby, Chambersburg,
20 Pennsylvania. So we're very glad to have you.

21 DR. ZUROWESTE: Thank you. Sorry I was late.

22 MS. MULKEY: That's all right. You weren't very

1 late at all. So if we have any clarifying questions? If
2 not, we'll do the other two parts of ours and we should
3 be well -- we should be well within our hour, more than
4 within it for discussion. So you don't have to speak up
5 now in order to participate in the discussion. But if
6 you need something clarified, Jose?

7 DR. AMADOR: Just a quick question. On the post
8 application assessment, your DFR, is that calculated
9 before the re-entry period or after the re-entry periods?

10 MALE SPEAKER: Well, we would --

11 DR. AMADOR: That's the amount that we can
12 dislodge from the residue -- the leaf, right?

13 MALE SPEAKER: That's what we based the re-entry
14 period calculations on, so can we get back to that slide,
15 Bill, with the graph?

16 DR. AMADOR: Post application assessment? No,
17 back some more.

18 MALE SPEAKER: No, I think this -- so, what we
19 do is start with dissipation data for the chemical and
20 the crops that we're interested in and look at how it
21 behaves on those particular crops. And then we use that
22 information to calculate exposures using those transfer

1 coefficient values that I was talking about.

2 For each -- so we'd look at a crop and how the
3 chemical behaves on the crop and then the kinds of jobs
4 or tasks that somebody would be doing and couple that
5 dissipation information with the jobs that we're
6 interested in.

7 MS. MULKEY: What Jose is asking is, is the
8 dislodgeable sole area residue value calculated only at
9 one point in time?

10 MALE SPEAKER: Oh, no.

11 MS. MULKEY: Or do you calculate it at multiple
12 points in time?

13 MALE SPEAKER: Right. The way that we ask
14 people to do studies is to collect information over a
15 period of days from the application and then we use that
16 information to characterize the kinetics of how the thing
17 dissipates and then use that information.

18 DR. AMADOR: So the exposures that go down as
19 the date after the application.

20 MALE SPEAKER: Right. So the exposures would
21 just track what the dissipation rate of the chemical.

22 DR. AMADOR: Thank you.

1 MS. MULKEY: J.J., did you have a clarifying
2 question?

3 DR. STEINBERG: Two quick things. One is that
4 if we could see that science policy web site again and
5 maybe let it linger there for a few seconds so we could
6 jot that down.

7 MS. MULKEY: That was near the beginning.

8 MALE SPEAKER: Yeah.

9 DR. STEINBERG: And the other thing is that, you
10 know, again, this is an example where we clearly need to
11 have, you know, we need to love our epidemiologist. And
12 these data must be available and the epidemiologist must
13 be able to say that it's accessible and it's convenient
14 and it's easy to get at.

15 I hate to use the word, but we do have a Drug
16 Czar in America, a general of the Army. We do, in a
17 sense, almost need a data czar. There is so much rich
18 data available, and to make that data accessible and
19 easily available to the citizens, to industry, to
20 scientists, really needs to be underscored.

21 And unfortunately, that will be a theme that I
22 may mention two or three more times. I apologize for

1 that.

2 MS. MULKEY: Why don't we come back to that in
3 discussion. Maybe we can talk a little bit about what we
4 know about accessibility now. But we can hold that to
5 the discussion session. Larry, did you have a clarifying
6 question?

7 MR. ELWORTH: Just a quick question back on that
8 slide you had a moment ago. Is that an actual -- is that
9 particular slide based on actual data?

10 MALE SPEAKER: It is. It's an actual
11 dissipation data for organophosphate.

12 MR. ELWORTH: Okay. Then I'm assuming that what
13 strikes me about it is it's remarkably smooth and during
14 harvest -- well, as a matter of fact, as soon as you
15 decide to harvest, it starts raining. So it seems like
16 an awful smooth curve. I'm assuming it's a place where
17 it doesn't rain for 60 days.

18 MALE SEAKER: This particular chemical, we had
19 several studies on it. And it pretty much in different
20 crops, different regions of the country, you see the same
21 thing.

22 UNIDENTIFIED MALE: But some -- that is true in

1 some -- that's why we ask for a whole bunch of studies.
2 Some get smooth curves like this. Some have curves with
3 breaks and stuff.

4 MS. MULKEY: And he said this was several
5 different studies and you combined the curves?

6 MALE SPEAKER: No, this is one study.

7 MS. MULKEY: I see.

8 MALE SPEAKER: But the -- all the data for this
9 particular chemical looked pretty similar.

10 MS. MULKEY: And Jay.

11 MR. VROOM: J.J.'s reference to epidemiology
12 reminds me that I'm not sure I really understand the
13 current role of epidemiology in regulatory action. I
14 don't think there is any explicit impact. But maybe you
15 could just speak to that a little bit, Marcia or Alex?

16 MS. MULKEY: You guys want to take a crack at
17 that and then --

18 MR. VROOM: And then -- go ahead and then.

19 ALEX: Well, we used that -- we looked at the
20 epidemiological study and we make sure that it's
21 consistent with the, with the results of what we're
22 getting. If we do a risk assessment and it shows that

1 the MOEs are all 0.05, you would expect to see something
2 happening out in the real world.

3 And if we don't see something happening, we
4 might suspect that our calculations need to be further
5 refined. That's pretty much what we do in HED. I don't
6 -- maybe --

7 MR. VROOM: And probably in worker protection,
8 there is a more robust database of epidemiology than you
9 would find in other exposure areas. Is that generally
10 correct?

11 MALE SPEAKER: I would say it's probably true.

12 MR. VROOM: Does the Agency have anyone in
13 epidemiology on staff in OPP?

14 ALEX: We have three people. We have Jerry
15 Blondell is the one that does most of that.

16 MR. VROOM: Right. All right. I want to think
17 some more about this. I'm still a little confused.

18 MS. MULKEY: Okay. I'm happy to take this
19 remaining question, but do remember we have a full
20 discussion opportunity here. Dan?

21 MR. BOTTS: This does get to clarification.
22 Having the opportunity recently to review the data call

1 in that led to the creation of the Ag Re-Entry Task Force
2 information, that was clearly geared specifically to
3 agricultural crops, both ornamental and field crops, and
4 some limited applications to greenhouse operations.

5 How is that data going to impact the other uses?
6 Is the Outdoor Re-Entry Task Force going to parallel the
7 same type of information and data collection to provide a
8 database, is one question.

9 The second part, the directions in that was
10 still essentially low tiered type analysis geared toward
11 understanding to make an initial registration decision
12 rather than doing the type of sophisticated, refined risk
13 assessment like we typically did with the dietary
14 exposure system in some of the other issues that are
15 there.

16 Is there any follow-up toward how to build upon
17 the Ag Re-Entry Task Force information if it's truly the
18 low-tiered study to build some of the probablistic type
19 analysis to determine if there are differences in regions
20 of the country and some of the things that the growers
21 perceive occur out in the field?

22 MALE SPEAKER: From -- do you want me -- from a

1 technical perspective, that issue is something that we've
2 talked a lot about. For example, in the Oversight
3 Committee discussions with them, I think everyone
4 involved on all sides, the scientist level feels at some
5 point, we'll move to a probablistic modeling.

6 For example, in the question that everyone is
7 kind of grappling in that group is how do you do it, and
8 some of the issues are data hogs, for example, where we
9 need information about what -- how -- what -- where
10 people are working, what chemicals are used, and the
11 regional variability.

12 And you know, we've tried to make that best use
13 of that information as we could as it's trickled in. And
14 I think what you're talking about is something that once
15 the whole thing is done and we kind of sit back and take
16 a look at it, and then figure out how we want to use it.

17 And then what kinds of distributions we're
18 willing to accept as far as putting in for those kinds of
19 time based information and the regional variability that
20 we really have to do to move to that. And --

21 ALEX: And we are getting close. We already do
22 have software available that we're evaluating. And

1 actually today and yesterday, there was a group of people
2 that were starting to learn how to use the software, and
3 starting to evaluate it to do probablistic assessments.

4 And I would also like to add that we do, even
5 now, without looking at a probablistic assessment, look
6 at dislodgeable foliar residue, for example, from
7 different parts of the country so that we could set
8 different REIs for different parts of the country if it
9 made sense based on that data.

10 MR. BOTTS: Yeah, but the reason that I asked
11 the question that data call in specifically said that it
12 had to follow the guidelines which was the highest use
13 rate, most likely to create the greatest risk type
14 scenarios to be looked at in the data call-in, which --
15 and I'm not sure having just looked at a couple of the
16 ARTF actual studies that they commissioned to do.

17 I think they followed that instruction pretty
18 much to the letter in how they designed their studies
19 which may not represent typical worker exposures in most
20 situations.

21 MALE SPEAKER: In certainly the initial batch of
22 studies that were done and the way the process really

1 evolved was with the survey we've identified all
2 different types of exposures that happen. And if you
3 reviewed it, you understand about the clustering.

4 For example, you wanted them, and they are in
5 the process of generating information that across all
6 different types of jobs and different types crops, that
7 we really are encouraging them to get information on the
8 whole range of kind of occupational exposure.

9 So they did capture the higher exposure kinds of
10 things first, but they -- now they're going back and
11 following up with things like they've done some scouting
12 studies, they've done some irrigation studies. Those
13 kind of things which are typically considered the lower
14 exposure activities. So when it's all said and done, we
15 will have information that really runs the range that
16 we'll use.

17 MR. BOTTS: But those use rates are still at the
18 higher use rates in the regions of the country where the
19 highest residues would be at.

20 MALE SPEAKER: Yeah, and the other component to
21 go with it is each of the -- along with the exposure data
22 which is the Task Force work, the companies were supposed

1 to develop their own chemical specific dislodgeable
2 foliar residue database that reflects different regions
3 and different rates and those kind of things.

4 So that's what we use on a chemical specific
5 basis, coupled with the ARTF information to make those
6 kinds of decisions.

7 UNIDENTIFIED MALE: Yeah, I'd like to add that
8 even though that's the way the DCM may have gone out, the
9 companies aren't restricted from doing their own studies
10 at different rates.

11 And with recent experience has shown us that the
12 companies don't seem to be reluctant to do those types of
13 studies to show that the exposures are actually less with
14 lower application rates or different methods, or
15 whatever. We've gotten a whole lot of studies in over
16 the last year or so that we've looked at.

17 MS. MULKEY: And do we -- Dan.

18 MALE SPEAKER: I have a quick question on the
19 transfer coefficients. How variable are those? I mean,
20 we've got a number for apples. And there's so many
21 different, you know, aspects that can vary that and so
22 how do you see that? I mean, with just the nature of the

1 crop, I mean, is it regular tree versus trellised or --
2 and then, does it vary with actual the level of
3 dislodgeable residue?

4 MALE SPEAKER: Those are all very good
5 questions, and within the Task Force, for example, we've
6 had them more or less commission some different analysis
7 using the data to explore those issues.

8 And so we get a real good definitive answer on
9 that. And they're -- that kind of work is on-going.
10 They are -- they do vary to some extent as you'd expect,
11 but you know, we're trying to get a better handle on that
12 with the analysis that they're doing now.

13 UNIDENTIFIED MALE: They vary -- they can be as
14 low as what, a hundred or two hundred. And some of them
15 are way up as high as eight or ten thousand, depending on
16 things like how high the crop is, how big the leaves are,
17 what the leaves are made out of, how -- you know, what
18 the person is doing in the field if he's right in there
19 amongst -- you know, with the foliage or whether he's
20 just reaching down and grabbing into it or something like
21 that.

22 So they are all over the place and we're trying

1 to right now make sense and make sure that -- make sure
2 that all of the data makes sense in terms of what
3 transfer coefficients we're seeing and what nature of the
4 activity we're looking at is.

5 MS. MULKEY: Well, I hope this was all helpful
6 as now we're going to ask -- I think we have folks we
7 might have waited for. So if Lois will spend a little
8 time with us talking about the participation and -- of
9 the farm worker community and perspective and any others
10 with a stake in this issue as part of our public
11 discussion process. And Lois?

12 MS. ROSSI: Okay. I'm just going to -- since we
13 haven't been to the PPDC in a long time with where we --
14 our process on re-registration, as many of you know, but
15 maybe some of you don't know, we have been following a
16 pilot process for a little over two years now.

17 It was discussed at the track in 1998, and we've
18 been following it to carry out the re-registration and
19 tolerance reassessment of the organophosphates. And
20 we've also adopted many of the features of this public
21 process for the non-organophosphates that we're putting
22 through re-registration and tolerance reassessment.

1 The process was designed to increase
2 transparency of the review and allow increased public
3 participation. The process has been a challenge to the
4 Agency as well as the Department of Agriculture and, I'm
5 sure, to most of the stakeholders that have been
6 involved.

7 But it has resulted in much new data and
8 tremendous amount of information being generated very
9 rapidly, extremely rapidly to assure that the best
10 information is factored into our risk assessment and
11 ultimately into our risk management decisions on these
12 chemicals.

13 In implementing the process as often is done in
14 a pilot, we've -- together with USDA, we've had to modify
15 it and make changes to allow the process to allow
16 increased involvement on the part of stakeholders.

17 It -- as with all public processes, when once
18 you increase participation and transparency, there's
19 increased work on all parts, including that of
20 stakeholders who want to actively be involved, and a
21 responsibility to become involved and understand the
22 Agency's assessments.

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1 The Agency with the Department has tried various
2 ways to make our assessments more comprehensible and
3 allow people to fully understand the data used and the
4 assumptions we've used in these extremely complicated,
5 detailed assessments. You've just got to look at one
6 part of our assessment, but there's many, many, many more
7 parts to it.

8 And they are often very, very large and
9 voluminous. But we early on realized that if the process
10 was going to be truly an effort to increase participation
11 and openness, that all stakeholders had to have some
12 basic understanding of the risk assessment in order to
13 fully participate in the risk management decisions.

14 The activities that I think we have managed and
15 again, at a cost for effort on all parts, but we have
16 posted all the assessments on the Internet in the docket,
17 and included them in our docket.

18 We've written summaries and charts and various
19 ways to make the information more understandable and more
20 transparent so that you can go to the area of interest
21 that you might be able to provide information. You can
22 go to it more easily.

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1 We've had technical briefings. We've done over
2 20 of these in different parts of the country. We've had
3 a lot of conference calls and that's particularly a topic
4 today. And we have had meetings with just about any
5 stakeholder that has requested one over the last two
6 years. And included minutes of these meetings in the
7 docket.

8 We've worked hard to include as many people as
9 possible in some of our conference calls, and as I said
10 in the CARAT presentation that we did in October on the
11 status of our program, can we do better? Of course, we
12 can do better. It's a learning process. It's a very big
13 -- it was a very big change in the way we did re-
14 registration decisions.

15 So, of course, we can do better, and as we sort
16 of work through the process and make certain steps
17 routine like closure conference calls, I mean, like
18 technical briefings. I mean, the first technical
19 briefing we did was a monumental effort for the Agency
20 and now we can pretty much do them fairly effectively and
21 certainly with a little bit less effort.

22 But there's always ways to make it better. And

1 we are constantly increasing our coordination and our
2 contacts with various stakeholders. In the last few
3 months, we've really focused on coordinating with our
4 regions and states, and also with our colleagues in
5 Canada on our decisions.

6 With respect to the conference calls, the
7 conference calls provided a very easy way to get a lot of
8 people together to discuss a certain topic. And we have
9 worked closely and USDA has had some conference calls of
10 their own, as well as we have had some that we've been
11 jointly on. And we have tried to notify people who have
12 commented on the assessments throughout the process.

13 The closure conference calls, I think we have
14 done a fairly good job in notifying people who we knew
15 were interested. And particularly if people let us know
16 ahead of time that this is a chemical that they want to
17 be involved in, we have made sure that they know, at
18 least, on the closure conference call.

19 There are other conference calls that we have
20 throughout to the course before we lead up to the closure
21 call because the closure conference call is pretty much
22 at the end when we're prior to making and issuing a risk

1 management decision on a chemical.

2 And again, I think we have been fairly diligent
3 in making sure that people who we knew were interested
4 in, and some groups have done a very good job in
5 notifying the Agency that they wanted to be included. I
6 can think of one right off the top of my head because we
7 are dealing with them quite a lot is the American Bird
8 Conservancy. They have let us know what chemicals they
9 are concerned with.

10 So as I said in the CARAT meeting in October,
11 with regard to the worker community, I think we are
12 looking for ways to effectively be able to utilize the
13 information that they may have to help in our
14 discussions, and include them in our -- include them in
15 more of the process rather than just the technical
16 briefings and the closure conference calls.

17 So I think we'd be certainly, as we continue to
18 roll out our pilot and continue to expand the contacts
19 and the processes and be more inclusive, I think we're
20 looking for ideas right now as we go through the next set
21 of decisions and chemicals to make sure that this
22 stakeholder group as well as any other stakeholder group

1 that we haven't specifically mentioned or touched on is
2 involved.

3 **(End of Side 1 of Tape 1.)**

4 MS. MULKEY: -- for other discussion. The third
5 piece we want to talk about a little bit is Kevin Keaney.
6 Kevin, we need to limit you to about seven or eight
7 minutes, if you can live with that.

8 MR. KEANEY: Sure. A few remarks on the Worker
9 Protection Assessment, the national assessment we're
10 doing under the Worker Protection Program. A little
11 background for some of you who might not be aware of the
12 nature of the regulation and the program.

13 In the 80s, the Pesticide Program looked at the
14 provisions for worker protection and found them a bit too
15 general and vague for real enforcement and implementation
16 and proposed a new regulation specifically focusing on
17 worker protection link to label revisions.

18 And the regulation became final in 1992. There
19 was a period of relabeling of the pesticide product and
20 then a coalition of agricultural interests brought
21 certain provisions of the regulation to the attention of
22 Congress and to us.

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1 And there was a Congressional delay and some
2 changes were made to accommodate the issues that were
3 raised or to address the issues that were raised and to
4 generate more training materials. And then full
5 implementation took place in 1995.

6 So we're at a five year point. It's a normal
7 point to reassessment a new program, to assess a new
8 program. We've also come under some focus with a GAO
9 audit, a federal advisory committee focus on the
10 regulation. A number of concerns focusing on the silence
11 in the regulation, relative to children, women, pregnant
12 women and so forth.

13 Also a number of concerns focusing on the
14 consistency of implementation and enforcement around the
15 country of the program. So there's a good deal of
16 internal impetus for assessment and external impetus for
17 assessment of the program. So we did commit to conduct a
18 national assessment of the enforcement and
19 implementation.

20 We held a -- and we decided we would use as a
21 focal point a number of workshops based at the heads of
22 migrant streams. So we had our first workshop in June in

1 Austin, Texas. Our next workshop is in Sacramento the
2 week after next. And a third workshop in Orlando in the
3 spring. And the culmination in Washington about this
4 time next year.

5 Now, these workshops are the emphasis is on work
6 in the workshops. The first workshop was framing issues
7 and themes. The continuing workshops will break out into
8 work groups that we would hope would conduct conference
9 calls and e-mail exchanges that we would facilitate over
10 the interim between the meetings to grapple with the
11 issues and bring resolution to a number of the issues
12 proposed.

13 Different approaches to address problems that
14 might have surfaced in these workshops. The themes that
15 came out of the Austin workshop focused around training
16 issues. They focused in four areas that we are going to
17 be pursuing in Sacramento. And they are communication,
18 training, and this is all outlined in the handout from
19 our web page -- communication, training, compliance and
20 retaliation.

21 An overarching would be children and special
22 populations and needs for concerns relative to them.

1 Those would be spread over all the other -- the four
2 other workshops. The end result would be a strategy to
3 reinforce the regulation to create a national consistency
4 as far as implementation and enforcement.

5 Our office of compliance is conducting an
6 activity that will feed into our national assessment and
7 that's -- they're calling it a program element review in
8 which they're auditing our regional offices for the
9 effectiveness and consistency in the guidance that has
10 been given to the regional offices. And then the further
11 guidance that the regional offices give to the states.

12 Because the states -- these are delegated
13 programs as you probably know. And the first line of
14 implementation and enforcement is at the state level. So
15 our enforcement office will be conducting this audit.
16 They're beginning their audits next -- or their program
17 element review. They're not calling them audits.

18 They're beginning them next week in the region -- in
19 the Denver office and the Kansas City office, and will
20 conduct a series of audits of the regions. The regions
21 will then look at states and the guidance and reporting
22 structures that they have in place.

1 So by this time next year, we would have a
2 better picture of how to restructure the program,
3 strengthen the program, change the program, change the
4 regulation, if necessary, institute a number of more
5 aggressive marketing of good models that we have around
6 the country that are working in the states or propose
7 before then a number of activities that we can actively
8 begin before the end of the assessment if we think that's
9 appropriate.

10 And coming out of the Austin meeting, we do have
11 some indications of some things that we can begin now.
12 And we'll pursue them and frame out the mechanisms for
13 that at Sacramento and Orlando.

14 And on a side point, we're also involved in a
15 very aggressive activity with the health care community
16 and we intend to try to bring them more actively into the
17 networks that we deal with in the worker protection
18 program.

19 MS. MULKEY: All right. Any clarifying
20 questions for Kevin? Larry?

21 MR. ELWORTH: After you have all these meetings,
22 what procedure are you going to use to report the results

1 of the deliberations or any conclusions or any summaries?

2 MR. KEANEY: The results of the meetings will
3 all appear in an executive summary in full text in our
4 web site for one. And we are establishing a list or
5 mechanism for all the attendees of the workshops to
6 exchange information and so forth. The ultimate
7 capturing in all this would be in a strategy package we'd
8 present at, as I said, the culmination.

9 MR. ELWORTH: Are you going to do a summary of
10 those especially if, let's say there's some, as you said
11 common themes or consistent recommendations that come out
12 of this that the Agency uses?

13 MR. KEANEY: Yes.

14 MR. ELWORTH: Okay.

15 MS. MULKEY: Okay. And is there a summary of
16 the first workshop somewhere?

17 MR. KEANEY: Yes, the executive summary is in
18 the package, the web site.

19 MS. MULKEY: All right. That's a good place for
20 it.

21 ANNE LINDSAY: And it's on the web and the full
22 text is available, too.

1 MS. MULKEY: Full text is available just for
2 asking for, is that what you mean?

3 MR. KEANEY: Yes, and we'll eventually put the
4 full text up in the PDF on the web.

5 ANNE LINDSAY: On the web and we're open to
6 other suggestions for ways to make this available because
7 that's one of our goals.

8 MS. MULKEY: Okay. Bill.

9 MR. TRACY: Kevin, you mentioned enforcement.
10 We've had the program in place for five years, for five
11 years now. What have you seen on enforcement uniformity?
12 Have you had a program review prior to this one?

13 MR. KEANEY: No, no. We haven't had the program
14 review prior to this one. There's anecdotal evidence
15 that it's widely varied across the country. And that was
16 supported by the audit done by GAO. And there's
17 inconsistency.

18 Some of it is rooted in definition, the guidance
19 given to the regions and to the states as to what
20 constitutes a worker protection inspection, how should it
21 be reported and aggregated. A real problem that GAO
22 pointed out and we agree with is that there isn't a

1 consistent reporting structure across the region so that
2 we can get a national picture easily.

3 MR. TRACY: Do you see a variability in, just in
4 enforcement infrastructure from state to state?

5 MR. KEANEY: Yes.

6 MS. MULKEY: And perhaps quite a variability as
7 it relates to this kind of enforcement than other. In
8 other words, there's variability from state to state in
9 enforcement in general. But there may be even greater
10 variability with respect to enforcement of the worker
11 protection.

12 MR. KEANEY: It's delegated -- as I said, it's a
13 delegated program, usually delegated to Departments of
14 Agriculture and their enforcement inspection structure is
15 usually key to dealing with growers. And in many
16 instances, they are unfamiliar or incapable in dealing
17 with this particular labor segment because of language
18 issues or other issues. And that has to be addressed in
19 some fashion.

20 ANNE LINDSAY: One other thing I might mention.
21 We've actually been working on this sort of uniformity of
22 reporting issue which the GAO report underscored. And

1 that we're going to have a SFIREG meeting next week.
2 This is the -- SFIREG is the mechanism we use to meet
3 with our state partners.

4 And there will be a discussion on the agenda
5 about a proposal to develop that uniform reporting
6 mechanism so that in the future what we would actually
7 hope is that we'll -- we will at least be able to
8 actually look across the country, either at a national
9 level or on a regional level or a state level and say,
10 here's what's going on, which at this point in time,
11 we're really not able to do in an easy fashion.

12 MS. MULKEY: It's for reporting, it's not just
13 for work protection.

14 ANNE LINDSAY: No, but worker protection might
15 be a pilot area that we would start out in given the
16 level of interest in this.

17 MS. MULKEY: Well, let's -- we have now about an
18 hour. And let's open this up for discussion of this
19 topic area, the three things we presented or other things
20 that may be on your mind that were not included in our
21 presentation. Okay, Bob.

22 MR. McNALLY: Well, I would just offer a comment

1 on Lois' presentation. I think my organization feels
2 very comfortable with the fact that you all have done an
3 outstanding job of reaching out to us at the appropriate
4 times and places. And I think we feel, you know,
5 empowered by the efforts that you've made.

6 One thing that I think that maybe could be done
7 a little better has been, I think, on the non-ag side,
8 especially, there hasn't -- there maybe could be a better
9 effort to identify who the other stakeholders are and to
10 reach out to them.

11 I think PCOs have been reached out to enough.
12 But I don't know that tree care guys or lawn care guys or
13 golf course guys or vegetation management guys and women
14 have been reached out to as much. And I think it would
15 be a worthwhile endeavor to try to identify who some of
16 those stakeholders are where they're not that well known
17 to the Agency.

18 MS. MULKEY: Do you know is there a worker
19 community in that area that is different from the vendor
20 community, and if so, do you have any thoughts about how
21 one might engage them?

22 MR. McNALLY: When you say a worker community --

1 MS. MULKEY: People who work for PCOs, lawn care
2 guys and gals, et cetera. The employee, the exposed
3 persons --

4 MR. McNALLY: You mean kind of like a farm
5 workers, kind of analogous to farm workers.

6 MS. MULKEY: Yeah, the sort of functional
7 equivalent, yeah.

8 MR. McNALLY: We don't allow that, our industry.

9 MS. MULKEY: You don't employ people?

10 MR. McNALLY: I don't think they're particularly
11 well organized. And I wasn't thinking of them, although
12 I think they're entitled to know these things as much as
13 the folks that I represent who are the owners of these
14 companies. I'm thinking more in terms of other types of
15 non-ag users who are less involved with this process.

16 MS. MULKEY: No, I knew that. I was asking
17 you --

18 MR. McNALLY: Yeah, but I don't think there are
19 organized worker communities.

20 MR. AIDALA: Well, I think that's your guys
21 aren't organized in your segment and other folks are even
22 less organized, is my observation.

1 MR. McNALLY: That's right. I mean, as
2 disorganized as it must appear that we are, there's
3 others worse than us.

4 MR. AIDALA: Well, I meant to say more vis-a-vis
5 the workers organized, Bob. Not the management of your
6 segment of the industry.

7 MR. McNALLY: But I think what we can help you
8 with and, you know, I think we can help very easily
9 provide, you know, names and information about who all
10 those other people are, at least to the extent that we
11 know who they are.

12 MS. MULKEY: Um-hum. We'll make a note of that.
13 Kim, did you need to make a point?

14 MR. McNALLY: It is increasingly becoming an
15 hispanic work force, though. So it would have some of
16 the same types of problems, as far as communication and
17 training.

18 MS. MULKEY: Larry?

19 MR. ELWORTH: I've only been tangentially
20 involved in some of the conference calls. I still think
21 that's a good idea. And Jeff mentioned a couple of times
22 the six phase process that has been established for re-

1 assessment. I was involved in all of these advisory
2 groups, the names of which -- the acronyms of which I
3 can't remember anymore.

4 But I think of all of the things that happened
5 in those advisory groups, the most salutary outcome was
6 the process that the Agency went through to make really
7 clear the process by which it does dietary risk
8 assessments. I think that was -- I think it was good for
9 the stakeholders and the affected community. And I think
10 as a public policy outcome, it was really good for the
11 Agency as well.

12 It gave your people both the pressure and the
13 opportunity to articulate to people outside the Agency
14 what they do as far as risk assessments. And I could
15 really -- I have dozens of questions based on Jeff's
16 presentation. It's not because it wasn't a good
17 presentation, but there are a lot of things that I think
18 if they were put out on the table as transparently as the
19 dietary risk assessment, it would be extremely helpful.

20 And I would really like to encourage the Agency
21 and Bob was kind of going there yesterday with the
22 residential exposures. I think it would really helpful

1 for the Agency to have -- to go through a process with
2 PPDC if that's the appropriate venue of really
3 systematically talking about the assumptions, the SOPs,
4 the kind of training that takes place for people to do
5 diet -- do worker risk assessments.

6 I think having a process like this with PPDC,
7 again if that's the right organization, right committee,
8 would be extremely useful. I think it would useful for
9 the Agency in terms of -- to having the practice of
10 articulating of what it does in terms of risk
11 assessments.

12 I think as Bob mentioned yesterday, that process
13 really builds confidence in the Agency's processes. And
14 I think it also would help people like Jeff and Mike in
15 doing their risk assessments if they have an opportunity
16 to say here's how we go about this and to find out that
17 there's data, that there's assumptions that could be
18 revised, that there are ways of designing your procedures
19 to get information in a more timely fashion.

20 I think that would be really helpful. And I
21 think it would be especially helpful in this issue since
22 you have both the connection with the dietary assessment

1 and also you have all the re-registration issues. You've
2 got questions of how benefits are used in this process
3 since it's primarily a FIFRA process.

4 I mean, there are all sorts of questions that we
5 really haven't addressed that would really help. I
6 mean, to the extent that I want to raise an issue for
7 consideration of the Committee and for you folks, see if
8 there's not a way that we can do a substantive process
9 like we did on dietary, both for this and maybe also for
10 residential because I think that's where Bob was going
11 yesterday.

12 MS. MULKEY: Well, there's been a lot of
13 discussion about an interest in that in the CARAT as
14 well.

15 UNIDENTIFIED MALE: Um-hum. Um-hum.

16 MS. MULKEY: On this particular topic, even
17 though it is not strictly speaking, a tolerance
18 reassessment topic per se. Because as you said
19 correctly, it's a FIFRA topic. But you may not have
20 picked it up in my remarks yesterday morning, they were
21 hurried. But we are planning a workshop on worker risk
22 assessment methods.

1 The current thinking is early March, based upon
2 the interaction with all of the worker activities that
3 Kevin talked about. I think our anticipation had been
4 that for that workshop, like the one day we did in
5 cumulative last summer, that we would take special
6 efforts to include the CARAT members. We did that last
7 summer. We brought them in.

8 We gave them their own special seat. We -- to
9 the extent that travel is funded for CARAT. We handled
10 that workshop the same way. We arranged for conference
11 calls. I will tell you that I frankly was a little
12 disappointed in the relatively low level of attendance by
13 actual CARAT members.

14 A lot of the stakeholders who are represented on
15 CARAT had other representatives at the workshop. And
16 maybe that's just as effective. But I think we would be
17 receptive to making this workshop sort of a combined PPDC
18 and CARAT event. So that those of you who are on PPDC,
19 but not on CARAT would get the same kind of enhanced
20 opportunity to be actively engaged.

21 And we could think further about whether there's
22 other -- but the whole point of that is to take enough

1 time and to make it possible to get more in depth than we
2 had the opportunity to today. And the hope is that
3 things like today, start people at a little higher level
4 when they do get involved in it. But we do have that
5 plan.

6 MR. ELWORTH: Well, I think the workshop is a
7 good kind of foundation for that kind of work. And I
8 think it's important to go through the process once. I
9 think of a lot of what happened in the CARAT work groups
10 was real important where people could sit down and talk
11 with, you know, whoever -- with the HED folks, for
12 example, and say, here's what I understood from your
13 presentation of the work group, but here are the eight or
14 ten questions that really come up out of that. And that
15 kind of interchange was really helpful. So I think the
16 work group is a really good idea.

17 You raise the issue of where this fits in. Is
18 it a PPDC issue? Is it a CARAT issue? And it's partly
19 the time and energy the Committee members, so of whom are
20 the same. But maybe we'll talk about that a little bit
21 later. But I think that kind of interchange that took
22 place within the work group was real important, too.

1 MR. AIDALA: All's I know is Keith has talked
2 about this in the past, what we need to have the
3 Department sort of more involved, which is not just as a
4 component of expertise contributing to what we're doing,
5 but also as a way to communicate back to, you know, that
6 set of stakeholders, too, which obviously is especially
7 -- (inaudible) -- with the Department. And Theresa and I
8 have had the sight bars on that all morning already.

9 And basically, in order to further, again, your
10 basic premise of the more you understand it, a, you might
11 have advice, but also I think it sort of demystifies a
12 lot of what's going on. And that, yeah, we may, you
13 know, for example -- one of my favorites is why did you
14 assume 100 percent dermal absorption? Well, no one gave
15 us a study to tell us a new number.

16 Well, they gave us a study about the new number
17 and guess what? The number is changed. And that's not
18 unlike that whole business about how that risk assessment
19 at one time was totally a black box. But if you don't
20 have PDP data, what are you supposed to use? Okay, you
21 get PDP data or other market basket surveys, boom, you've
22 got different numbers.

1 And again, okay, I understand that. So the
2 Agency is willing to accept it. You know, how do we
3 accept it? How do you get it, et cetera. And that's
4 part of I think what agreeing with you about the whole,
5 you know, the good ends that came out of that whole
6 discussion in other arenas.

7 MR. ELWORTH: Yeah, yeah. And especially with
8 pea head, some of the revisiting of pea head that you
9 folks were doing. Doing that in the context of
10 articulating what it is you're doing in the first place,
11 I think it would be real helpful.

12 MS. MULKEY: Are you finished, Larry? I'm
13 sorry. We'll go with Dan, Jay, Phil, and Bob again.

14 MR. BOTTS: Once in my life, I totally agree
15 with Larry.

16 MR. ELWORTH: Can I revise my remarks?

17 MR. BOTTS: I totally agree with Larry. Having
18 gone through this process at the request of the grower
19 community in Florida and with the leadership of some of
20 the people sitting around the table today, we
21 specifically asked for this on a compound that had gone
22 through a red and was an OP.

1 And I think it was enlightening to everybody
2 sitting around the table as we worked through that case
3 study and saw where the actual numbers came from, what
4 assumptions went into the process, how the calculations
5 were done.

6 And granted, Jim, a lot of it was new data on
7 the dietary, but there were also process changes in how
8 the calculations were done as well. And a lot of times,
9 the conversations that have led to the decision process
10 on worker protection issues have been done between the
11 registrant and the Agency based on purely the hazard side
12 of the equation.

13 And the growers have a lot to bring to the table
14 in that discussion, as well as the farm workers and other
15 groups that are out there involved in it everyday. So I
16 would second that.

17 And in light of Marcia's comment about the
18 relative low attendance at the cumulative exposure
19 workshop, there were a lot of us that would have loved to
20 have been there. But because of other jobs that pay our
21 salary, ended up having to be other places.

22 And I can't tell my executive committee I'm not

1 coming to their summary board meeting to go to those. I
2 would just suggest that if you want to do this, let's go
3 ahead and set a date as soon as possible so everybody can
4 get it on their calendars, especially if you're talking a
5 late March time line. It's not too late to try to set
6 that meeting date as soon as possible.

7 MS. MULKEY: That's very helpful. And then Jay.

8 MR. VROOM: Could you tell us what percent, I
9 think, Joe read us -- said yesterday, 850 employees in
10 OPP work on worker protection and what percent of the
11 budget, whatever that number is? I forgot to ask him
12 that last night.

13 MS. MULKEY: It's -- let me, there's direct and
14 indirect, and I mean, it's very hard to do these kinds of
15 things. But work directly on worker protection in HED
16 would be approximately --

17 UNIDENTIFIED FEMALE: Are we talking about
18 worker protections?

19 MS. MULKEY: No, worker risk assessment for now.
20 And we'll get to worker protection. That's --

21 UNIDENTIFIED MALE: If you -- worker combined
22 with residentials, maybe, 20 to 25.

1 MS. MULKEY: That's NHED Science direct, and for
2 exposure, and then the hazard work, remember, is done for
3 worker and for everything else. So all the people
4 working on hazard, you have to tribute a portion of that
5 to worker. Then the Worker Protection Program at
6 headquarters involves approximately --

7 UNIDENTIFIED MALE: Four or five.

8 MS. MULKEY: And then in the regions, there's
9 some fractional addition. And the Office of Compliance,
10 so that's a very hard number to generate. It would be
11 even harder to tribute dollars exclusively. Do we have
12 any direct expenditure for worker risk assessment dollar
13 figure?

14 UNIDENTIFIED FEMALE: We do have contracts and
15 that's probably -- it's less than a half a million a
16 year.

17 MS. MULKEY: But that's direct expenditure
18 exclusively for this purpose. And it would be all of our
19 work to maintain our data system. Some of that should be
20 attributed.

21 UNIDENTIFIED MALE: It sounds like it's less
22 than 15 percent of all the resources.

1 MS. MULKEY: Fifteen, yes, I think that would be
2 fair.

3 UNIDENTIFIED MALE: Is that bigger or smaller
4 than it might have been five or ten years ago?

5 MS. MULKEY: Percentage terms, I would guess
6 that it's slightly -- well, it might not be bigger
7 because the denominator grew. In absolute terms, it's
8 certainly bigger.

9 MR. AIDALA: You know, observationally, if
10 nothing else, obviously, one thing about ten years ago,
11 is you were in the middle of writing the rules. So there
12 was that kind of big, you know, sort hype on for writing
13 the rule.

14 I think since then, it's been implementing the
15 rule as well as we go through FQPA, and frankly forget
16 FQPA. I mean, this is basically what was going to happen
17 as part of the re-registration because re-registration
18 was always going to have to have this big component of
19 these issues.

20 And finally, as we got back on however we got
21 there after the '88 amendments, you started to see in the
22 '90s more of this focus. And especially given

1 insecticide use with OPs or whatever, but not just OPs.
2 You started to see more of a focus, I think.

3 That's just with observationally looking at the
4 program over 20 years.

5 MS. MULKEY: I intuitively feel that it is an
6 increase. But whether it -- how much it's a percentage
7 increase.

8 MS. STASIKOWSKI: Yeah, there is an increase,
9 definitely.

10 MS. MULKEY: Yeah, but it may just be an
11 absolute increase, not an percentage increase.

12 UNIDENTIFIED MALE: It wasn't a trick question.
13 I was just trying to get some sense of, you know --

14 UNIDENTIFIED MALE: You can tell we do budgeting
15 at EPA, too.

16 UNIDENTIFIED MALE: Right. Yeah.

17 MS. MULKEY: Well, it is very hard to attribute
18 -- you can sort out the amount that's exclusively worker
19 protection.

20 UNIDENTIFIED MALE: Right.

21 MS. MULKEY: But there's an awfully lot
22 that's --

1 UNIDENTIFIED MALE: Well, the reason I asked the
2 question was more fundamentally, where are we headed.
3 And I was just curious to know whether you could answer
4 the question of what are the three most important things
5 to be achieved in the next year for OPP on worker
6 protection.

7 MS. MULKEY: Well, the worker protection
8 reassessment is certainly one. And that's not just for
9 OPP, that's for the whole Agency. Appropriate chemical
10 specific risk assessment and risk management, I certainly
11 think you have to -- and that of course includes
12 improving the science as well as making -- and then I
13 think the third is this area, this sort of untended to
14 area of young workers, special categories of workers.

15 Those are the three I would pick completely off
16 the top of my head. If I omitted something conspicuous?

17 MR. AIDALA: No, I'll just give you again, just
18 impressionistic wise, I mean, what is, again, the worker
19 program review? Just as Kevin said, just it's time to do
20 that. And that may be big or small in terms of the kinds
21 of implications of it. Is it simply especially, as Bill
22 raised the issue about in sort of enforcement consistency

1 across states and regions, or is it also -- will it belie
2 that some more significant things need to be done?
3 That's number one.

4 Number two, the general emphases as we work
5 through, again, not just insecticides. That's not to say
6 that, you know, herbicide applicators are never at
7 jeopardy and all that. But obviously, the whole general,
8 you know, as we complete, again, call it re-registration,
9 call it FQPA assessments. Again, the worker issues just
10 are, you know, just are important. That's part of our
11 job to continue on.

12 And who knows predictably whether there will be
13 a particular chemical that has a big, quite a big problem
14 or potentially, apparent big problem or not.

15 And then thirdly, and I'll put one a little more
16 outside the box that we've been kicking around
17 internally. There's a number of things from the '92-'94
18 era when the regs came out of that we basically have not
19 -- and I think -- you can call this as part of the
20 retrospective five years after or even just looking at
21 that list.

22 There's hazard communication, right to know

1 kinds of issues for workers that were left behind then.
2 And that's something that we'll be seriously considering
3 whether or not -- how to do that. Some states do it.
4 Other states don't. Do we need a federal, you know, the
5 federal role in that? We had -- that was part of the
6 proposed rule back in the earl 90's but then it's frankly
7 not been dealt with since.

8 And that's sort of the only addition, I think,
9 the substantive addition to Marcia's list. And since
10 Kevin runs the program, he gets to have to fix it, too.

11 MR. KEANEY: Well, when we're talking about
12 workers, we shouldn't overlook the applicator community
13 which is part of the worker community we're dealing with.
14 And there was an assessment of the certification and
15 training program that came out with some sweeping
16 concerns and not the least of them would be better
17 integration with the worker protection regulations, so
18 that you have some sort of integrated worker safety
19 program.

20 MR. ELWORTH: But imbedded in both your question
21 and the answer is the fact that if, I think, when you
22 look at when OPs are finally dealt with, worker risk

1 assessments will have been the reason for as much or more
2 regulatory action than dietary.

3 MS. MULKEY: At the individual chemical level.

4 MR. ELWORTH: Right. Right. And depending on
5 the crops, say, for example, Bill's crop, cotton. That's
6 going to be the primary reason that any regulatory action
7 would at least be proposed. So I mean, I think that's
8 kind of where you were going with this. That this is
9 just as key an issue on the OPs and polycarbamates as the
10 dietary is.

11 MS. MULKEY: That's what Jim and I were both
12 trying to say.

13 MR. ELWORTH: And my point is simply --

14 MR. AIDALA: Right. Right. Right.

15 MR. ELWORTH: And frankly outside of FQPA, not
16 just because formally under the law it is per se. But as
17 you continue -- unless you assume the re-registration was
18 never going to happen, which was I guess at some point.
19 But anyway -- but obviously as you finally implement the
20 '72 and '88 amendments, you have to address those issues,
21 so.

22 MR. AIDALA: Right.

1 MS. MULKEY: Right. And Jim mentioned the
2 insecticides, acute toxins.

3 MR. AIDALA: Um-hum.

4 MR. ELWORTH: But there are also reasons to
5 worry about the percentages.

6 MR. AIDALA: The other thing, Jay, would be sort
7 of asking your industry at the same time. I mean, for
8 example, is there some new technology. Over time,
9 there's always been this business about ways to reduce
10 drift. If you reduce drift, you're going to have other
11 impact -- I mean, what you need to do in a whole number
12 of reasons would also probably have a worker or
13 occupational impact.

14 New technology about whether the truly double
15 closed cabs reduce those numbers further. I mean, if my
16 back calculations right here, where you have a 20 fold
17 reduction from going to airblast to closed cab. Well,
18 does that still say that we can do better on closed cab.
19 I'm making that up.

20 But I mean, that's partly -- and that's not just
21 your industry, but the other input supplier industry as
22 to changes here in this whole arena for a whole number of

1 reasons, both whether it be the insecticides, whether it
2 be carcinogens, or just less is more as you go over time,
3 that if you reduce exposure, whether it be dietary or
4 occupational, you've got a better risk profile over time.

5 UNIDENTIFIED MALE: Well, I -- and not only are
6 there new application technologies and/or new
7 chemistries, but can agriculture afford them. And when
8 will they be able to be implemented which I would argue
9 or suggest that USDA, you know, needs to be part of kind
10 of a larger strategic thinking here because we can have a
11 lot of great stuff, but you know, if farm economy doesn't
12 allow farmers or dealers to afford, you know, to buy, you
13 know, the newer, better stuff, then it really doesn't
14 affect anything in the way of risk mitigation.

15 Kevin, you started up the sort of production
16 chain, but you didn't talk about plant manufacturing
17 plant, formulation plant workers that -- is that dealt
18 with entirely separately in this process?

19 MR. KEANEY: Yes, it would be. I mean the
20 regulations we're dealing with are ag and employer
21 driven, employer/employee.

22 UNIDENTIFIED MALE: So you don't deal with

1 manufacturing people?

2 MR. KEANEY: No, no.

3 MS. MULKEY: That is OSHA jurisdiction. It is
4 the case that sometimes there are epidemiological studies
5 that come out of that population that are useful to us.
6 So there is some science connection. And then there is a
7 few pesticidal uses that occur as pesticides in
8 manufacturing plants that on occasion might be an issue.
9 That's sort of a residential.

10 And finally, there's a question of whether
11 things like seed treatment which occur in a factory-like
12 setting, but are an application that basically we
13 regulate. So there are a handful of those things that
14 might merit. That's sort of one of those special
15 population questions.

16 But for the most part, the people who work for
17 your member companies to make the stuff are under the
18 jurisdiction of OSHA.

19 UNIDENTIFIED MALE: OSHA, right. Okay. Well, I
20 -- it sounds to me like the only thing that might be in
21 the next 12 months a significant departure from the more
22 or less business, incremental as usual effort in this

1 area might be youth in agricultural settings. I don't
2 know how you describe that, but a special subpopulation
3 group of children in harvesting conditions and that kind
4 of thing might be a big incremental extraordinary effort
5 if you got to that.

6 MS. MULKEY: Well, I suppose -- it's only if you
7 have the word might. I'm not sure how big or
8 extraordinary it would be, but -- and the other thing Jim
9 mentioned which is -- I don't know if you'd regard that
10 as big or extraordinary, but some movement in areas like
11 risk communication to workers, maybe greater stakeholder
12 involvement of workers, those kinds of issues.

13 MR. AIDALA: Yeah, my take on it is these audits
14 is sort of routine, but as Bill raised the issue, gee, if
15 some states are doing a different job than in other,
16 there's everything from a level playing field for the
17 producers to just sort of doing their job. I think
18 that's the most significant thing over the next year as
19 we go through these reviews, frankly.

20 In addition to hazcom or, you know, risk
21 communication, and I think with -- it's been this steady
22 issue of this special subpopulations. And it gets raised

1 in a number of different ways. It's basically, I'd like
2 to think of it frankly as more of a general issue of
3 bystanders, drift and bystander issues.

4 Whether it's a person who you want to claim as a
5 farm worker family living near a field or just a suburban
6 family living near a field as suburbanization and
7 agricultural ends meet. Either way it's something we've
8 all had to wrestle with.

9 We, as regulators, you as the, you know, the
10 producers of the chemicals, users, as the people that
11 apply the product, of what you're doing to your
12 neighbors. I mean, that's -- I'm not sure that's a big,
13 new thing this coming year or any other year. But it's
14 an on-going issue and at some point, it may become a
15 pivotal issue in a decision or not.

16 UNIDENTIFIED MALE: I think all of this to me
17 supports Larry's suggestion that we ought to think about
18 some way of getting, you know, a group to think more
19 strategically about big picture issues here because
20 there's so much effort going into a lot of the
21 incremental work.

22 But are we focused on an achievable strategic,

1 you know, long-term or intermediate goal, and are we
2 getting there or not. You know, I think that all of
3 that's useful and --

4 MS. MULKEY: Well, if you all are not --

5 UNIDENTIFIED MALE: -- I didn't say that we're a
6 work group yet, but I think that's what Larry is thinking
7 about.

8 MS. MULKEY: Well, if you all are not actively
9 involved in this series of workshops which has work
10 groups relating to the worker protection rule, you
11 definitely ought to be. I mean, that is clearly a very
12 significant effort and it is pretty large in scale,
13 scope, jurisdiction.

14 It doesn't go to the risk assessment piece, but
15 virtually everything else we've talked about is at least
16 tangentially connected to that effort. And that is
17 stakeholder based, stakeholder designed at a pretty high
18 level of effort. I believe that -- oh, boy, Phil was
19 next, yes.

20 MR. BENEDICT: Marcia, I was wondering if you'd
21 consider doing one of these workshops by satellite. It
22 would allow people to participate from the Himalayas. It

1 would allow a lot more staff scientists from state
2 organizations, universities.

3 MS. MULKEY: We talked about that for the
4 cumulative one last summer and for a host of reasons, of
5 logistics, we did do a telephone hook-up. So yes, we
6 would and you know, have a down link at a local hotel or
7 something.

8 MR. BENEDICT: The USDA used to do a lot of down
9 links. You know, you've done down links, too, on C Band.

10 MS. MULKEY: We have. Now, that's a very viable
11 --

12 MR. BENEDICT: But I really think it would allow
13 for an awful lot of participation at the staff science
14 level.

15 MS. MULKEY: That's a very good suggestion. I
16 think the other stakeholders would find that helpful,
17 too.

18 MR. BENEDICT: It would train a lot of people.

19 MS. MULKEY: I don't know enough about the
20 technology to know just how easy it is, what kind of
21 costs we're looking at. We -- but I think we certainly
22 are prepared to explore that.

1 MR. BENEDICT: I think if you put the word out
2 on your web page and put out a lot of mailings where
3 people could go -- there's an awful lot of old C Band
4 satellites. I've got one. In fact, we sat at my house
5 last time you did it.

6 And with a couple of telephones, people can call
7 in their questions, and I think you can do a lot of
8 training that way and get to a lot of staff people which
9 aren't going to get to meetings.

10 MS. MULKEY: I think that's a very helpful
11 suggestion. I appreciate it.

12 DR. AMADOR: The reason is that is what we did
13 one time at Texas A and M.

14 UNIDENTIFIED MALE: We did it in the early days
15 of work objection.

16 MS. MULKEY: We did.

17 DR. AMADOR: We did and it worked out real well.

18 MS. MULKEY: Thank you.

19 UNIDENTIFIED FEMALE: Texas A and M facilitated
20 all of it.

21 UNIDENTIFIED MALE: Well, that's a good idea.

22 MS. MULKEY: I think that's -- yeah, excellent.

1 UNIDENTIFIED FEMALE: Also, Farm Bureau has
2 facilities, there are many organizations with facilities.

3 MS. MULKEY: Right.

4 UNIDENTIFIED MALE: And if they keep the
5 deadlock, C-Span is going to be looking for material so -
6 -

7 MS. MULKEY: You can only watch the county and
8 vote so long. Okay, well I think we go to Bob and then
9 Beth, and then Bill.

10 MR. McNALLY: Well, it won't surprise you that I
11 wanted to say that I appreciated Larry's remarks. Larry
12 was saying something that caused me to want to respond to
13 something you'd asked me yesterday, Marcia, which I
14 answered really badly.

15 You asked whether a workshop or a work group
16 would be a better or different way of approaching these
17 issues, and I didn't know what the right answer is. And
18 I still don't know what the right answer is.

19 There's something about workshops that gives me
20 the feeling of this discussion times five. There will be
21 more discussion of the same things, more in depth and
22 maybe even a little bit of an exchange of ideas and

1 that's good. But work groups give me the feeling that
2 they produce an end product, recommendations or do things
3 that actually produce real changes.

4 And I just, maybe it's just semantics, but the
5 idea of a work group seems to me to be a much more --
6 well, a much more worth while endeavor for my
7 organization. And I know it's a huge drain of resources
8 on the Agency. You've got two CARAT work groups.
9 There's still an INERTS work group here. I guess,
10 rodenticides is done. And this would add another work
11 group. But if there was some way to do that, I think
12 that would be really useful.

13 And just one other thing, I think somebody's
14 suggested yesterday that the notion of forming a work
15 group was designed to impede or delay regulatory decision
16 making. Believe me when I say that's not our intention
17 on something like this.

18 MS. MULKEY: Now that you've raised the R word,
19 and Dan actually was really interesting after hearing all
20 this lobbying for extensive work groups to hear Dan's
21 very real expression of the tension between demands on
22 his time and the ability to attend even a single day

1 session, especially if it wasn't scheduled particularly
2 artfully.

3 The tension here, let's be very frank. We --
4 believe me when I say we have no hesitancy to be as
5 transparent as possible and to engage with all of you and
6 others and to get as much of your point of view as
7 possible.

8 Both of those things are those things that we
9 are eager to do. But frankly, not to the exclusion of
10 keeping the trains running. And for us, it is very much
11 a tension between those two things. And so yes, we seek
12 things that are intermediate, not because we are
13 reluctant to have things that go the whole nine yards.

14 But I've got to tell you, I feel very good about
15 the work we're doing on INERTS. We've had two full day
16 meetings and seven long conference calls, and we are
17 still understanding each other. And there are -- that is
18 just a very high price. It is worth paying, but we
19 cannot, we simply cannot afford to pay it on every topic.

20 We have to find some ways on some of these
21 topics to find some intermediate ground. That's also why
22 I made the remark I did yesterday which was a little

1 snippy on my part about there's only so much hand-holding
2 and you guys have to invest, too.

3 And part of what I hear you saying, quite
4 frankly, is this is hard for me to understand and I need
5 you to spend a lot more time with me helping me
6 understand it. Frankly, I'm not a scientist either, and
7 I understand that dynamic. But the reality is there's
8 only so much of our resources that can be legitimately be
9 spent working people through very multiple tiers of
10 understanding.

11 We did invest that on dietary. It clearly paid
12 off. We are trying to find smart ways, efficient ways,
13 ways we can live with and resource drain terms to
14 accomplish some of that and to get -- and we're also
15 asking you, not only make yourselves available for work
16 groups, but find some ways for you to carry a little more
17 of the burden. Whether it means how you staff
18 involvement and these kind of things, or whatever.

19 In other words, you pay for some of the cost of
20 translating this material. You know, either through your
21 resources or whatever. That is why you don't see us
22 saying, great idea. We'll start that one. Another great

1 idea, we'll start that one. Oh, now, let's -- you know,
2 because there is a real and pretty dramatic cost.

3 UNIDENTIFIED MALE: And let me just comment. I
4 understand that and am sensitive to that. Yesterday, and
5 -- well, yesterday particularly, the president -- the
6 presentation on residential exposure reminded me a lot of
7 the discussion that we had in the pre-briefing for the
8 first track meeting.

9 Which is to say we were all surprised that there
10 was that much information out there and we were all a
11 little startled that you had done as much work as you had
12 done. And we were all a little bit mystified about what
13 it all means. And I think that's kind of where we are on
14 worker exposure to some extent and residential to some
15 extent.

16 The process that did give rise to so much
17 confidence building in the measurement of dietary
18 exposure could occur here as well, I think. And I think
19 it's an investment worth making.

20 MR. AIDALA: Now, my version of this is sort of
21 all points are correct.

22 In other words, meaning you've acknowledged that

1 there's the tension. We've acknowledged that there is
2 the tension between the payoff and you know, sort of the
3 demands. I think it's sort of -- to me it's also a menu
4 of different things. For example, whether you call it a
5 work group or not per se, A, there's continual meetings
6 of this group itself.

7 Secondly, there is the workshops that we've
8 already articulated, long scheduled about, oh, across the
9 country workshops on the Work Protection Program which
10 obviously can be not just a one-way thing.

11 I think the comment about workshops is that
12 workshops by definition are sort of initially at least,
13 one-way-ish. It's that we're telling you how we do it
14 and obviously taking questions. That's a little more
15 one-way than oh, I've got an idea. What about this or
16 that?

17 It's sort of a series of workshops though.
18 What's the difference between a series of workshops? I
19 don't mean every month, but I mean, you know, more than
20 one and a work group. I'm not sure there is big one per
21 se. Because at a workshop, you can certainly make
22 suggestions, it's just at the first one you're learning.

1 You know, you're around the T.V., Phil, learning what the
2 heck is going on. By the second or third one or
3 something, you might then say, well, hold it. At the
4 first one, we learned this. We asked for a little more
5 follow up on that. Here's some new technology come from
6 the industry. Have you figured that in? You know, et
7 cetera, et cetera, et cetera. It becomes more
8 interactive after the first one when it is just the data
9 dumper, like the first meeting before the first track. I
10 mean, I think it's all those things taken together.
11 Whether you call it work group or not, I think that
12 again, everything has been stated in truth. This is a
13 useful exercise, not just for dietary, not just for
14 work --

15 **(End of Side 2 of Tape 1.)**

16 MR. AIDALA: -- you could spend a whole lot of
17 time with all of you about all number of issues, but
18 again, you have to pick among what your priorities are
19 because of time constraints both of you and also our
20 guys. So, sort of all taken together.

21 I mean, it's not just the one workshop. And
22 that's not the only time you get to talk about worker

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1 issues. It's the workshop that's at CARAT. It's at this
2 next meeting and the meeting and the meeting after that
3 about this group. It's the national workshops and any
4 other ideas.

5 Again, that's not to say that we're saying
6 that's enough, and that's all we're going to do. It's
7 just any other ideas. And so it's sort of everything
8 taken together in my book.

9 MS. MULKEY: Lois is going to FYI a little bit.

10 MS. ROSSI: I just want to say a couple of
11 things on this because having probably taken the brunt of
12 many of the frustrations and comments on the worker
13 assessments in the last year and a half or so, I think it
14 would be very helpful.

15 And I guess there's, you know, the dietary was
16 easy to kind of figure out what it took to make it clear.
17 I mean, to present in a table we accomplished that
18 essentially. By, you know, telling everybody what
19 percent crop treated, telling everybody the source of the
20 residues, telling everybody if you used juice or what you
21 did.

22 And in a table, I think that, not that I'm sure

1 anybody here would know the inner workings of the Monte
2 Carlo, but at least you got, you know, the assumptions
3 that were going in and you could comment. You could say
4 we don't treat that percent.

5 Now in the worker, it's a little bit difficult
6 although some of the variables, there's probably maybe
7 less than ten things that go into a worker assessment.
8 And some of them are standard, how much the guy weighs,
9 how long he works, that kind of thing. I mean, some of
10 them are standard.

11 But I think what my frustration has been and I
12 think in order for and probably your frustration is what
13 is it exactly that needs to be really articulated. And I
14 think that's -- and I think, Dan, the meeting that we had
15 that you referenced was really a very intensive four
16 hour, roll up your sleeves, where did this number come
17 from.

18 That's hard to do with a large group of people.
19 But if that's what's necessary, that's a different thing
20 than getting up and doing slides and showing it. And I
21 think at this point, I really think, you know, there's a
22 lot of frustration I think, certainly on my part and

1 probably on your part, to what is it more that we can do
2 and how can we do it to put this to bed to make it be
3 something like the dietary. Enough said.

4 MS. MULKEY: Okay, well let's --

5 UNIDENTIFIED MALE: I wish I had said it that
6 way.

7 MS. MULKEY: Let's go to bed and then I'll try
8 to figure out where I think the cards came up. But we'll
9 get to all of you.

10 UNIDENTIFIED FEMALE: Two things. One, I think
11 the teleconference idea, I really like. As much as I
12 would love to get to Orlando in the spring, I probably
13 won't. And my best way of sitting in on one of these
14 national workshops is -- would be the teleconference.
15 And I think I agree that a lot more people get involved
16 that way.

17 You mentioned a couple of studies that I was
18 curious about. One is a NIOSH study, ag-health study.
19 What is -- and the second one study is of farm worker
20 children. When are these studies going to be completed?
21 How do you see incorporating them?

22 MR. AIDALA: I was going to mention that.

1 Whether that's the next year or the next two years, those
2 studies that have been under way for a while won't hear
3 the time lines. Those could make a difference as to
4 obviously depending on what the results are.

5 UNIDENTIFIED MALE: The ag-health study is -- I
6 guess it was really initiated about seven to ten years
7 ago. It's a large epi-study. I think they have 70
8 thousand participants in the epi- part. And it's being
9 done in Iowa and North Carolina. And it's NIEHS-NCI and
10 then we're doing an exposure component. And the exposure
11 component I think it is in the pilot stage at this point.

12 To kind of verify what they're seeing in the
13 epi-study, it's a multi-year thing. I think 30 years,
14 whatever their budget is. So, you know, we'll get that
15 information as it comes in and use it to get --

16 UNIDENTIFIED MALE: That's focusing on farmers,
17 applicators and their families.

18 UNIDENTIFIED FEMALE: Okay, when -- how far
19 along are they?

20 UNIDENTIFIED MALE: I think they're reporting
21 out this year.

22 UNIDENTIFIED MALE: I think they are reporting

1 out some of the initial health effects information from
2 the epi component this year. And then I believe that the
3 R-field component is piloting this year. It may -- the
4 first phase may be done already. I'd have to go back and
5 really check the details. It's been a while.

6 And then the farm worker -- the children studies
7 are what was discussed yesterday and that's basically
8 worked through an axis and some of the environmental
9 centers that are set up through one office of research
10 and development. And much of that work is on-going.

11 Some of the preliminary information is just
12 coming on line within the next year, for example. So
13 we'll be using that to just help us, you know,
14 characterize the overall risk and get as much kind of the
15 factors data that we can from risk assessments from it.

16 UNIDENTIFIED FEMALE: Is the new program -- are
17 there any plans to include protection for farm worker
18 children if this study shows the need for it? I mean --

19 MS. MULKEY: Well, obviously, if any information
20 indicates a need for something that we have jurisdiction
21 over, we look into whether we can do something about it.

22 UNIDENTIFIED FEMALE: Dumb question.

1 MS. MULKEY: There was a person from our Office
2 of Research and Development here yesterday. And his
3 materials are not in the packet, but we're going to
4 supply them. And they list a lot of studies. And he
5 mentioned that a lot of that material is on the web. And
6 I believe his presentation had some web sites in it.

7 And so that may be a way for you -- and also,
8 you could just call him. His name is Chris James.

9 UNIDENTIFIED MALE: Chris Saint.

10 MS. MULKEY: Saint, excuse me. Who is Chris
11 James? Somebody I'm sure that I know.

12 UNIDENTIFIED MALE: They're a rock band.

13 MS. MULKEY: Is that it? But -- and we can get
14 you that. So that may be helpful to you. All right.
15 Well, Jim suggested that I just go down the line. And
16 I'm pretty sure Dan's card was up first, so I'll do that
17 and then go down.

18 MR. BOTTS: Actually, I think Mr. Tracy's was,
19 but I'll take the opportunity anyway.

20 MS. MULKEY: Okay. Then I'll go down the line
21 the other direction.

22 MR. BOTTS: Specialty crops are more important

1 than cotton anyway. From a worker protection standpoint
2 I think we could make it --

3 MS. MULKEY: Do you mean that they have more
4 problems with worker protection?

5 MR. BOTTS: -- a case for that. Maybe not the
6 handlers side, but the worker's side, we probably could.
7 Just to reinforce one issue. And this is something that
8 I take a lot of personal interest in.

9 And we have supported both Kevin's program
10 through our labor division at FFVA by doing -- providing
11 worker protection training for our membership and their
12 workers and also through support for the workshops. We
13 will have somebody in Sacramento.

14 We had somebody in Austin. We'll have somebody
15 in Orlando. We'll have somebody in Washington. Whether
16 it's me or our labor division or somebody, we've actually
17 engaged in this issue at least since 1982 at the level of
18 intensity that we are right now. It's not an issue that
19 we take lightly. It's not something that we don't
20 support moving forward.

21 One of the things that frustrates me is we're
22 still talking about the same issues and it's more

1 rhetoric than it is actual rolling up your sleeves and
2 getting to the point of determining where the real risk
3 points are so you know what to deal with. And we've got
4 to get to that point. And until you understand how the
5 assessments are made or how the work takes place in the
6 field, you can't do that.

7 And that's part of what this workshop that Larry
8 is talking about will be critically important in doing
9 because it will show how the risk assessment is defined,
10 give the people who are going to have to deal with it a
11 true understanding of how they can actually provide real
12 mitigation for real risk.

13 Because right now when we go into a meeting and
14 hear somebody say it's a fourth of a drop of a product
15 that has been used for the last 40 years with no history
16 of incidence out there. You've got a hard time selling a
17 grower that he's got a problem that he needs to deal
18 with.

19 And until they understand where those numbers
20 come from, what's driving the policy decision to drive
21 the decision that that's the endpoint they want to
22 regulate on, you're going to face this same frustration

1 that you hear that ends up in the polarized positions
2 that we've faced on some of the other issues the other
3 day.

4 Until you get a common understanding of what
5 drives that process, you're still going to have these
6 same conversations from now on. So it's critically
7 important that we get to the level of understanding where
8 we can actually define the goals of the workshop.

9 And this is one place, our work group, this is
10 one place where I'd differ with Bob, maybe not differ
11 with Bob, but right now, if we sat down to form a goals
12 and objectives statement for a work group, I don't think
13 we could do it. Because everybody's understanding of
14 what the issues really are different.

15 And until we get to that level of understanding
16 which I think goes to the point and I will agree with
17 Lois. The meeting that we had back in July or whenever
18 it was, on the product that had already gone through the
19 -- essentially had reached closure on where it was going
20 to end up and probably not continue to be labeled on the
21 crop that the people that were at the table who still
22 would like to see it registered on that crop were raising

1 hell about it.

2 We left that meeting with a much better
3 understanding of where the number came from. We might
4 not still disagree that you're being protective or
5 actually dealing with an issue that needs really to be
6 dealt with, but until you get that level of understanding
7 across the board, you can't move forward in coming to a
8 real definition of how you want to address this problem.

9 MR. AIDALA: And then given that, I'll call that
10 the case example, or whatever you want to call it, that
11 you and your folks got really involved in. What was the
12 real -- was it that you better understand it and
13 therefore, might accept the fact that, yeah, something's
14 got to change, or that hold it, there's something we can
15 do. Just kind of was there a particular --

16 MR. BOTTS: It's a combination of both because
17 what it was -- probably the single biggest thing, and
18 Jeff, you weren't at the meeting and I'm going to take on
19 the model just a little bit. The thing that drove us
20 absolutely batty, it was an air-blast application
21 sprayer. They looked at the dermal exposure issue.

22 You've got a 50 percent reduction in the dermal

1 exposure number based on science who came in, but it made
2 less than a five percent difference in the risk number at
3 the end of the day when you took that into consideration
4 with the assumptions that went into the model that led to
5 that number coming out.

6 Now how do you deal with that? You either
7 provide information to change the model, you question the
8 model, you go in and look at some of the issues
9 surrounding that. And probably the thing that brought it
10 home to me, it goes back to the presentation yesterday on
11 the residential stuff, we've had hammered in our head
12 it's exposure plus hazard.

13 We've got hazard issues out there that you can
14 exchange an exposure route in the model and you don't get
15 the corresponding change in the risk that you do in the
16 dietary exposure assessment and other things. And that
17 leads me to believe that there's some things that need to
18 be done within the modeling process, either in pea head
19 or in how they do the calculations around the residential
20 -- or the dislodgeable foliar residue issues.

21 And some of the other things that need to be
22 plugged into the equation until we can -- until that can

1 be explained on why those changes don't happen when you
2 make those major differences in what should create
3 differences in the risk number coming out at the end of
4 the pipeline.

5 You're going to have a hard time explaining it
6 in a manner that anybody out there is going to buy into
7 that these are real numbers that need to be dealt with.
8 I don't want to minimize the issue because I designed a
9 program in 1983 to protect five thousand farm workers
10 that is probably more stringent than anything the Worker
11 Protection Program ever put on paper.

12 We are concerned about it. We want to deal with
13 it, but we want to deal with real risks, rather than
14 something that comes out of perceived risks.

15 MS. MULKEY: I think I'm hearing two things.
16 One is that case studies are real helpful.

17 MR. BOTTS: Yes.

18 MS. MULKEY: Whatever we do. Whether we do a
19 workshop, whatever. And that I think -- the other thing
20 out of -- this is the second time I've picked it up from
21 Dan in this meeting is that the hazard side is also very
22 important in these worker protection.

1 Quite frankly, that is harder to engage with and
2 it harder to make any one case study useful for others
3 and so forth. And I think it is a very different
4 science, group of scientists and everything else. And
5 it's not that different from diet. Sometimes it will be
6 different and point to a different study. But often,
7 it's the same basic set of questions that drive dietary.

8 So eliminating hazard in this area would be
9 eliminating it again in a lot of ways. But I think that
10 the role of a case study, the benefits of a case study, I
11 think that's certainly feedback that we know we can make
12 some use of.

13 UNIDENTIFIED FEMALE: Yes, I've got to agree
14 with that.

15 MS. MULKEY: Yeah.

16 UNIDENTIFIED FEMALE: And I also wanted to
17 mention that this is an issue that's really important to
18 the Department and to land grant universities. We have
19 expertise in this area. We also have access to exposure
20 information.

21 Our NASS people, the National Agricultural
22 Statistics Service, has a lot of the data that can help

1 with developing your models. They are already working
2 with the Agency to try to develop additional data or to
3 figure out how they can use existing data without
4 violating their confidentiality issues.

5 So we are working very closely with the Agency
6 and with grower groups and with land grants. This is an
7 issue that is very important to us. So Marcia, you can
8 count us in when you talk about, you know, needing the
9 resources to help move this along. The Department will
10 be there.

11 MS. MULKEY: Well, let's go down this way.
12 Bill, apparently, has been patiently waiting.

13 BILL: Just a perspective from the field, the
14 regulated community out there and to emphasize what Dan
15 has said, the mindset of the people that are drawn to
16 agriculture is show me, don't tell me. And I think
17 that's where we can get everybody on board.

18 And I wanted to emphasize and compliment the
19 Agency on the uniformity issue and encourage you to
20 continue with the Train the Trainer Program. We have
21 found that to be a tremendous asset. You know, even the
22 boss has one of your applicator cards there that one of

1 our employees trained me. And made me legal with the
2 training program.

3 Secondly, I wanted to compliment the Agency on
4 assisting my industry on putting out worker protection
5 bulletins that goes across all 17 of the cotton producing
6 states. We found that to be beneficial and I realize
7 that takes time from your other duties and all. But it's
8 a tremendous asset to have that available to us, that
9 expertise.

10 MS. MULKEY: Thank you. Larry.

11 MR. ELWORTH: We should have called on you
12 earlier.

13 MS. MULKEY: We saved him for the last.

14 MR. ELWORTH: Marcia, you raised an issue that
15 having been on the staff side of these federal advisory
16 committees, I remember being mortified at what had to be
17 what Lois' and her staff's workload, going into both the
18 Food Safety Advisory Committee and especially Track. And
19 so I have some personal appreciation of being up until
20 11:00 or 12:00 at night for weeks at a time dealing with
21 that and I don't want to minimize that.

22 But I think there's an issue here. It's not

1 just that people don't understand what's going on,
2 although that's a huge issue. I think what Dan's saying
3 and what I've heard from other grower groups is that to
4 the extent that they do understand, they're unnerved by
5 it. And they're on a case by case basis on each of these
6 assessments.

7 You will hear from the grower community that
8 there are either mistaken assumptions or data that simply
9 wasn't included that would have been really beneficial to
10 the assessment. So in that sense from a public policy
11 point of view, if on a case by case, you have chronic
12 concerns about the risk assessment, it would useful to
13 step back and look at the process and see if there are
14 ways that the process could move more efficiently and
15 more effectively that would at least minimize the kind of
16 case by case problems you keep running into.

17 So I think, again, and I'm not so focused on
18 what the mechanism is as long as there's that kind of
19 interchange, both to look at the policy and to deal with
20 the fact that it's not just that we don't understand it,
21 it's that at times we understand it and we really think
22 there are problems with it.

1 I also have an additional concern having worked
2 on pesticide issues for a long time and that is if you
3 don't get the risk issues right, not only do you mess up
4 the risk assessment on this side, but you end up focusing
5 on risks that aren't the important ones.

6 So I think there's -- in terms of focusing on
7 the right risks, whether it's farm worker, rather than
8 applicator/handler or the other way around, I think it's
9 important to get the risk assessment right so that you
10 focus on the right risk and mitigate the right risk.

11 Again, whoever the risk is assumed by. So I
12 mean, I guess, what I would recommend in this case is
13 some substantive process that both has a benefit to the
14 grower community, but I think a benefit to the Agency as
15 well. I mean, I would not suggest that the -- what came
16 out of the dietary risk assessment was solely useful to
17 the affected community.

18 I thought it was really useful to your folks. I
19 mean, you know, you learn something best when you have to
20 teach it to somebody. And I thought that was real
21 helpful to people at the staff level.

22 MS. MULKEY: Yeah, we don't disagree with that.

1 Jim?

2 MR. VROOM: Yeah, I just wanted to weigh in on
3 a, just a generic sense about this work group kind of
4 issue. And I think Dan and Lois have -- are onto
5 something about having a clear sense of purpose at the
6 outset of what's trying to be accomplished. It helps
7 drive the success of the work group.

8 And so in consideration of whether we're going
9 to go forward with some of these things, I think if we
10 have clear definition at the outset, that's going to help
11 everybody in terms of the efficiency of the resources
12 used in those work groups.

13 I also think that you need strong leadership
14 and good facilitation in those groups to make them
15 happen. Because you can -- people can come to the table
16 and it can be a complete wash or you can really help
17 drive them.

18 So if we have clear purpose, maybe time frames
19 in which things can be accomplished, a willingness to
20 participate and good facilitation, then I think they can
21 be successful. Otherwise, we shouldn't do them.

22 MS. MULKEY: Jay.

1 MR. VROOM: Just to come back to the Ag Health
2 Study for a minute. I'm fairly confident the Agency
3 staff is aware that the industry is doing some of its own
4 independent research with regard to those populations in
5 North Carolina and Iowa workers and farmers and their
6 families -- applicator workers and farmers.

7 And we do take that issue very seriously and you
8 know, because there are so many government agencies
9 involved in the Ag Health Study and it's been going on
10 for so incredibly long, there are some concerns about,
11 you know, remembering where the protocol started in the
12 study and how it's evolved and so we have decided to make
13 that investment, a substantial investment of an
14 independent look at some of that epidemiology and are
15 prepared to share that once we have it pulled together.

16 I think that's a very important point and I'm
17 glad Jim raised that because it could be, you know, both
18 substantively and probably more likely politically a
19 driving factor whenever more information starts to emerge
20 out of the Ag Health Study.

21 MS. MULKEY: Jay.

22 UNIDENTIFIED MALE: Did you set the timing on

1 that? Or did you? Timing?

2 MR. VROOM: Of the industry data? I'm sorry, I
3 can't remember at this moment. But I think it's catching
4 up to the same time lines that the reports.

5 MS. MULKEY: This is new to me. That doesn't
6 mean that the Agency didn't know plenty about it.

7 MR. VROOM: I think you guys knew about it.

8 MS. MULKEY: Yeah, are you actually dealing with
9 the same people and gathering data separately?

10 MR. VROOM: No, I don't think it's --

11 MS. MULKEY: Or are you reviewing our work?

12 MR. VROOM: No, I don't think it's the same
13 people, but we are --

14 MS. MULKEY: Getting data in the same places?

15 MR. VROOM: Yeah.

16 MS. MULKEY: Oh, okay. Well, we have -- we've
17 finished our timetable. We've had a full hour of
18 discussion. Actually, a little more, I think. It was
19 very rich. It is time for our break. We are scheduled
20 to reconvene right at 11:00 and let's try to do that.

21 **(Whereupon, a brief recess was**
22 **taken.)**

1 MS. MULKEY: -- be able to finish on time or a
2 little early in spite of my executive decision to run a
3 little longer than it was scheduled. However we have a
4 goof-up, our goof-up, which is that one of our members --
5 you'll remember that we mentioned yesterday that Nelson
6 Carasquillo would not be here.

7 Remember, because he was out becoming a
8 grandfather, and Theresa Niada is here for him and she
9 has been here all day, sitting dutifully in the audience,
10 unaware that she was a part of the Advisory Committee.
11 And I think she would probably like to participate in our
12 discussion on worker protection.

13 And given our failure to make that practical and
14 possible during the way that we are doing it, if it won't
15 trouble her, we would love to hear your prospective now.
16 And we'll take some time to do that before we go back to
17 our program.

18 MS. NIADA: Good morning, everyone. And I'm
19 very happy to be here on behalf of Nelson Carasquillo.
20 There were just a couple of comments. First, I found it
21 very interesting and the presentations provided a lot of
22 useful information.

1 One comment, though, I think Jeff, who I don't
2 see, had mentioned something with the pesticide handler
3 data base and I had a question if this just includes
4 registered and licensed handlers because I was concerned
5 that there's a lot of farm workers in our constituency
6 who are not licensed and registered and may not be a part
7 of this. So some valuable data is being missed.

8 We know of a lot of the farm workers who handle,
9 mix, apply pesticides who are not registered, who are not
10 trained, and who are not given the protective safety
11 equipment. And we had a meeting, actually, with a group
12 of farm workers last night and one gentleman had
13 mentioned that he mixes pesticides with water and he has
14 received no training or equipment.

15 And this is something that is very common, both
16 in the area where Cotto (phonetic) works in New Jersey
17 and Pennsylvania, but also, too, in our other member
18 groups in Florida and along the U.S./Mexico border. So I
19 was concerned that workers aren't being included in this.

20 This worker was also a field worker and is going
21 into an area that after has been treated with some
22 pesticides, begins to vomit and gets dizzy and nothing --

1 and no reporting is happening of this. So I just wanted
2 to bring some different scenarios that it's real
3 important to try to include the farm workers, especially
4 with the pesticide handler database.

5 And also with our field workers, I was a little
6 concerned, I know, with the NIHS study, too. I think it
7 was Kevin, if I heard correctly, it's with farmers,
8 applicators and their families. And a lot of our
9 constituency is very concerned about the long-term
10 exposure of pesticides on their health and that of their
11 family. The low-grade, you know, daily exposure.

12 So, too, I know EPA has some initiatives and
13 it's doing some pilot work to get some of this data, but
14 would stress the importance of getting more long-term
15 data and especially working with community groups who
16 basically have daily contact with farm workers and can
17 act as -- you know, to see what sentinel cases there are
18 and to provide some very useful information. So, just
19 very briefly, those comments.

20 MS. MULKEY: Thank you. Thank you. Bill, did
21 you want to add something?

22 BILL: Just one comment on regarding unlicensed

1 and untrained mixers, loaders, handlers and flaggers.
2 That is definitely illegal use of pesticides. I talked
3 earlier, it's against the label. I talked earlier about
4 uniformity of enforcement. And this is where the
5 regulated community's concern lies in the fact that the
6 example just given is extremely, highly illegal.

7 MS. MULKEY: Thank you. Thank you, both. All
8 right. The next item is an update that several of you
9 requested about tolerance reassessment and re-
10 registration. And Lois, are you doing this, or is Bob
11 doing this?

12 MS. ROSSI: Bob is doing this.

13 MS. MULKEY: Bob McNally, who is part of our
14 Special Review and Re-Registration Division. And there
15 is a paper on this, two papers, actually, I think.

16 MR. McNALLY: Yeah, Marcia, there's two things
17 that were just handed out. Let me show you what they
18 look like. There's a set of slides that entitled status
19 of re-registration and tolerance reassessment that Margie
20 put on people's chairs and made available for the public.

21 And then a thicker document that has the six
22 phase OP process on the front and sort of the status of

1 each of the OPs are in that. So if you have those, those
2 are sort of the basic materials.

3 What we wanted to do this morning was give you a
4 brief update of where we stand on tolerance reassessment
5 and on re-registration. To do this, let me just give you
6 a brief summary of what we did this past fiscal year,
7 Fiscal Year 2000, that ended September 30.

8 We had a good year. We completed 19 individual
9 assessments in Fiscal Year 2000. And in the material
10 that Margie handed out, that thicker package, later you
11 can look at, there's a summary of each of those decisions
12 we made on the 19 to give you a little bit of flavor of
13 the kind of actions we took.

14 As you can see here from the slide, there's sort
15 of three broad categories of actions that we took. But
16 first, there were six chemicals where we had re-
17 registration decisions made. That's what a RED stands
18 for. These are chemicals that were registered prior to
19 1984.

20 And essentially what we've done with these is
21 that we've completed the re-registration activity on
22 them. Now, there is one in here that's an OP, you'll

1 notice, ethylparathion. That one was voluntarily
2 canceled so we're able to count that as a RED completion.

3 The next set are what we call IRED. Some of you
4 are familiar with those. Seven of those were completed
5 last year. Six of them were OPs. One was a carbamate.
6 And what an IRED is an interim re-registration decision.
7 These are those chemicals that are part of a chemical
8 family that has to go through a cumulative assessment at
9 a subsequent point.

10 And lastly, there are six, what we call TREDs,
11 which stands for tolerance reassessments. These sort of
12 fall into three categories. These are post 84s which
13 under our program are not subject to re-registration.
14 Secondly, they might be import tolerances only, such as
15 something like Mevinphos that you see on the list there.

16 And lastly, they might be follow-up activities
17 to REDS we did before FQPA was passed, that we have to
18 come back to under FQPA and look at it again. And an
19 example of that would be Coumaphos.

20 Now, the next slide, we wanted to give you some
21 sense of where we stand overall with our re-registration
22 program. With the effort that we conducted this year,

1 we're now over 200 REDs completed, which we feel pretty
2 proud of. There were an additional 231 cases that were
3 canceled.

4 So when you look at the numbers in total, thus
5 far, we've completed about 70 percent of our work on re-
6 registration either through the voluntary cancellations
7 or through the 204 REDs that have been completed.

8 The next slide gives you sort of a quick summary
9 of those OPs that we did this past year. Again, these
10 are interim decisions that are pending the cumulative
11 assessment that needs to be done subsequently. There was
12 some discussion earlier with Jeff Dawson about the worker
13 activities.

14 What you'll see in the summary in that larger
15 material that Margie handed out is we have taken risk
16 mitigation steps, for example, for workers or ecological
17 areas in these. What these don't include is the
18 cumulative dietary assessment, although they each talk
19 about the individual dietary assessment.

20 So that's where we stand on the OPs in terms of
21 what's been completed through Fiscal Year 2000. Now, I
22 wanted to give you a flavor for sort of what's coming up

1 in our next set of chemicals.

2 The next slide that does that is you'll see on
3 this slide essentially the ones that we'll be doing next
4 are going to be the OPs that remain and also the last one
5 there which is not an OP which is propargite. So the
6 next set you'll see coming out of the Agency will come
7 from this list.

8 And then lastly, we wanted to give you a sense
9 of where we stand on tolerance reassessment. As you know
10 under FQPA, we were required to reassess all of the
11 tolerances that were in existence when FQPA was passed.
12 And that number is 9,721.

13 The law required us to reassess a third of those
14 by the end of first three years, which was August 19,
15 1999, another third by August by 2002 and the remaining
16 approximately third by August 2006. Last year, we
17 completed a 121 decisions that we can count. And that's
18 a key point here as you see a lot of the work we're doing
19 now is on the organophosphates. And as I mentioned, we
20 can't count those until we do the cumulative assessment.

21 The next bullet gives you some sense of where we
22 stand in total. The key point here is that by August

1 2002, the law calls for us to complete 64 hundred
2 assessments by that point. I would add that 3,551 is an
3 accurate number. We counted two -- we had two manual
4 recounts this week to verify that number as correct.

5 And several of those tolerances came in from
6 Florida, late in the day. The last point I would make is
7 that there are approximately 11 hundred tolerances that
8 are associated with the OPs. That once that cumulative
9 assessment is done, then we would be able to count those
10 as reassessed.

11 So that's a quick summary of where we stand on
12 re-registration and tolerance reassessment as of today.
13 Let me turn it back over.

14 MR. AIDALA: If -- Bob, maybe get at the number
15 of -- if and when that time comes that OPs are because of
16 cumulative, et cetera, et cetera. The number of OPs that
17 would make that 35 hundred number be --

18 MR. McNALLY: It would be about 11 hundred.

19 MR. AIDALA: Eleven hundred.

20 MR. McNALLY: So that would get to about 46
21 hundred. There are about 20 OPs we could count as REDs.
22 So the 204 number would go up to 224, for example.

1 UNIDENTIFIED MALE: Right.

2 MR. ELWORTH: Could I ask a dumb question?

3 MR. AIDALA: No, only smart ones.

4 MR. ELWORTH: With the cumulative -- when you do
5 -- do you issue a RED before the cumulative is completed?

6 MS. ROSSI: We've been issuing individual -- we
7 call them IREDs, interim RED decisions. So we've been
8 issuing -- that's what we issued at the end of the fiscal
9 year on the 14 that we did.

10 MR. AIDALA: That's the interim part of it.

11 MS. ROSSI: That's the interim RED, and that
12 includes the worker and the eco and the entire picture.

13 UNIDENTIFIED FEMALE: On those, the -- where
14 you've identified ecological and worker risks, what steps
15 have you taken beyond that? Has PR notices been issued
16 for worker risk? What, if anything, is issued for eco
17 risk?

18 MS. ROSSI: Each of those REDs contains a
19 mitigation section. And unless those mitigation measures
20 are implemented, including reduction of rates, increasing
21 REIs, increasing PHIs, and including discontinuing of
22 certain application methods, each one of those REDs gives

1 a regulatory risk management decision, which includes
2 mitigation measures for eco and worker.

3 UNIDENTIFIED FEMALE: Right. But having -- I'm
4 sorry. Go ahead.

5 MS. ROSSI: And those are -- the labels, the
6 revised labels need to be submitted on a deadline through
7 the processing of the product re-registration.

8 UNIDENTIFIED FEMALE: Okay, I just -- from
9 reading those --

10 MS. ROSSI: From reading the individual IREDs?

11 UNIDENTIFIED FEMALE: -- IREDs and going through
12 the different mitigation measures that are identified and
13 some are very specific, what, in addition to that
14 document, would identify the deadlines by which these
15 measures need to be taken?

16 MS. ROSSI: That is the document.

17 UNIDENTIFIED FEMALE: That's it. So, if it's
18 not in the document, then there is no deadline, or?

19 MS. ROSSI: If there's a measure that's not in
20 the document, then it's not implemented.

21 UNIDENTIFIED FEMALE: Well, because the only
22 thing that you can really see is, for example, it says

1 cancel -- voluntary cancellation of lawn uses and --

2 MS. ROSSI: Right.

3 UNIDENTIFIED FEMALE: -- and whether or not the
4 Agency has already worked that out with the registrant.
5 But for example where there are -- there's a mandate to
6 implement different re-entry intervals --

7 MS. ROSSI: Right.

8 UNIDENTIFIED FEMALE: -- it doesn't -- I mean,
9 the labels aren't a part of the document and there's
10 nothing beyond that. Is this an honor system?

11 MS. ROSSI: The labels have to be submitted,
12 though. Now, granted the label --

13 UNIDENTIFIED MALE: As far as --

14 MS. MULKEY: She wants you to explain the
15 deadlines and REDs, the label submission deadlines.

16 UNIDENTIFIED FEMALE: Yeah.

17 MS. ROSSI: There are different deadlines
18 because for some of these OPs, we have shortened the
19 deadline for label submission. Traditionally, the label
20 submissions on a lot of our previous REDs have been very
21 long. I mean, they've been like 24 months and then
22 another 24 months to clear through channels of trade and

1 this kind of stuff. But on many of these individual
2 ones, they have specific deadlines that -- where the
3 labels have to be submitted.

4 MR. AIDALA: If there's no deadline in the
5 document, does that mean that it has already have to have
6 been submitted? I believe that's part of the question.

7 UNIDENTIFIED FEMALE: Thank you, yes. That's
8 exactly what I was asking, Jim.

9 UNIDENTIFIED FEMALE: If there's no deadline in
10 the document.

11 MR. AIDALA: No other says -- it says that the
12 label must be changed to delete the lawn use or the
13 blueberry use. Does that have to have been submitted
14 before it's written down unless it has a date in the
15 document? I think that's your question.

16 MS. ROSSI: In cases where we've asked for
17 deletion of uses, we generally have those in hand before
18 we write the document because we don't eliminate a use
19 that -- we don't eliminate a use from a risk assessment
20 unless we have a commitment that that use --

21 MR. AIDALA: Right. Well, unless the document
22 -- I say the blueberry use is phased out in the year

1 2001. It would say that.

2 MS. MULKEY: I think there's a minor little
3 administrative point. You guys are talking across each
4 other. The two year you talking about, the sort of
5 generic timing for REDs.

6 MS. ROSSI: When the entire labels need to be
7 submitted.

8 MS. MULKEY: Right. If there's not a specific
9 date for a change, then that change is picked up on this
10 two year window.

11 MS. ROSSI: The product re-registration process.

12 MS. MULKEY: Okay.

13 UNIDENTIFIED FEMALE: That's exactly what I was
14 asking.

15 MS. MULKEY: Right.

16 UNIDENTIFIED FEMALE: Thank you. Thanks.

17 MS. MULKEY: Okay. Was Bob in the middle or are
18 you finished?

19 MR. McNALLY: Done.

20 MS. MULKEY: So any other questions, comments,
21 discussion? People are ready to move on, huh? I think
22 for those of you who are deadline followers and who worry

1 about our ability to get our work done, and I certainly
2 count myself among that, I think Bob did some of it. It
3 might be worth pointing out.

4 For example, the remaining work on REDs, 177
5 REDs to complete. Bob said that's, I don't know, 20 --
6 30 percent of our remaining work. We hope and believe
7 it's not 30 percent of the total work the re-registration
8 program had to do. For example, included in the 177 are
9 all of these IREDs that are not yet REDs.

10 So there's all the OPs that are in the two
11 complete, but for which almost all of the classic RED
12 work is done or nearing done. So that's it.

13 And also, these are organized around, to some
14 extent, priorities. So while we still are working on the
15 worst first, tolerance reassessments, we are, as you saw,
16 increasingly doing that work and there will remain a lot
17 of the easy stuff at the end of the day.

18 And I couldn't tell you how many out of the 177
19 are going to be easy scientifically and managerially, but
20 there is a subset of them that are the ones that you save
21 to the last because they are the least important under
22 tolerance reassessment.

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1 MS. ROSSI: Yeah, I think in the whole universe
2 of REDs, if for those of you who remember the original
3 list A, B, C and D, with A and B having sort of the ones
4 that were -- or had the perceived worst -- or potentially
5 worst, I think we have something like 12 remaining on
6 list D that need to be done. And 20 odd on list C. So -
7 - and if you take away the OPs, actually, A gets into
8 almost like 50 or 60 left that we would have.

9 MS. MULKEY: So of the 177, there's a meaningful
10 percentage that are hard and big work, but it's not a
11 177.

12 UNIDENTIFIED FEMALE: No.

13 MR. AIDALA: For example, if that's about 40 or
14 so OPs or 35 or so, 40 plus are anthomicrobials
15 (phonetic), 30 are list C and D. Certainly, that's to be
16 subtracted, if you will, under that kind of accounting
17 from the 177.

18 UNIDENTIFIED FEMALE: Right.

19 UNIDENTIFIED FEMALE: So, I guess, just to
20 clarify, when you say that we had a very good year with
21 19 per year, this isn't to say that these 177 will take,
22 and I have not done the math, but 19 per year of these --

1 MS. MULKEY: Eight or nine years, no.

2 UNIDENTIFIED FEMALE: Yeah.

3 MS. MULKEY: That's not to say that. That's
4 part of the message I was trying to send.

5 UNIDENTIFIED FEMALE: Okay, that's what I
6 thought.

7 MS. MULKEY: We are, as Joe said yesterday in
8 his presentation, we are planning on a -- on the FQPA
9 statutory time line basically. And we are planning to
10 integrate RED completion with tolerance reassessment
11 completion on that time line.

12 MR. ELWORTH: But we're not on that 4,030
13 schedule we were a few -- what was the number --

14 MR. AIDALA: Yeah, 22 hundred or something like
15 that. The number I estimated before I had this job.

16 MS. MULKEY: And of course, you're the reason
17 why it's so different story today?

18 MR. AIDALA: Why not. I'll let you think that.

19 UNIDENTIFIED MALE: A lot of memories.

20 MS. MULKEY: Okay. Very good. But anyway, I
21 just -- Jim was telling me we needed to be able to send
22 that -- we need to be transparent on this, including the

1 fact there is still quite a lot of work to do. Don't
2 misunderstand me. It's not all just moving boxes.
3 Adriana, did you have more or are you --

4 ADRIANA: Oh, no. I'm sorry.

5 MS. MULKEY: Any other? Well, that's fine. I
6 think we can move directly into our discussion of future
7 PPDC issues. Now, we've heard a lot about work
8 group/workshop, deeper, more comprehensive.

9 I'm choosing to hear all of that as not a single
10 message, but as a mix of messages about interaction and -
11 - because we are going to be selecting members as well as
12 planning agendas and timetables, and because our
13 timetable is obviously appropriately integrated with the
14 CARAT timetable, I told you what I know about it
15 yesterday.

16 We would welcome your feedback about topics and
17 issues, about scope, about membership and about
18 timetables for this advisory committee, including the
19 whole question of should we continue to pursue this
20 advisory committee.

21 Obviously we've decided we should, or we
22 wouldn't have done a call for membership, but any subject

1 is open for this session. So, have at it. Wow, you guys
2 are really in a hurry to leave.

3 UNIDENTIFIED MALE: So when is -- what's the
4 deadline for submission of interest to --

5 MS. MULKEY: I believe it's December -- December
6 27 sticks in my mind, but it's in the FR notice. It's
7 about a month from when it's issued.

8 I have -- I think I said yesterday, in addition
9 to indicating whether you personally wish to continue,
10 you might want to indicate others that you think would be
11 appropriate and interests or points of view, bearing in
12 mind that you all tell us and we concur that the scale of
13 this advisory committee is very -- it works. But you pay
14 a price for this scale.

15 And the price is that we don't have a lot of --
16 I mean, agriculture is incredibly diverse. You cannot
17 represent the range of agriculture in this room. The
18 non-agricultural pesticide using sector is incredibly
19 diverse. You can't probably represent it in this room.

20 The public interest community is -- is itself no
21 one speaks for all. They bring different interests to
22 the table and they feel -- we all feel resource

1 constraints. They seem to have fewer numbers and it's
2 sort of obviously apparent that they have fewer numbers
3 and that creates some special strains.

4 So if they're to be -- if their voices are not
5 to be crowded out, and if they're to have sort of an --
6 that's sort of a critical mass of points of view, then
7 that limits it. So there are a lot of factors. I'm
8 filling time, hoping somebody will put up a --

9 (Laughter.)

10 MS. MULKEY: Warren.

11 WARREN: Well, in the spirit of looking at
12 tolerance reassessments, as we look down the road to
13 2003, 4, 5 and 6, there are roughly 771 food use inerts
14 that are going to have to get reassessed from a tolerance
15 point of view.

16 That affects every single food use product
17 that's out there. And the registrants and the inert
18 suppliers, I think, really need some lead time and some
19 guidance from the Agency as to what we might anticipate
20 in the area of tolerance reassessment for inerts.

21 There is going to need to be business decisions
22 made. You're going to have to cost out the data or the

1 information. You're going to have to have some kind of a
2 time line to complete studies and work on that. No one's
3 figured out a way to do a year's study in six months.

4 So the bottom line is we need as much lead time
5 as we can. But we have a very complex set of issues.
6 And we certainly don't want to have 771 task forces out
7 there, each generating their own data. So we need to
8 think of ways of cost-sharing and grouping and putting
9 families together.

10 I think we need to try to set some priorities in
11 those 771. Which one do you want the first year, the
12 second year, the third year and the fourth year? I think
13 it's also important to look at that timetable.

14 But I also think we need to try to coordinate
15 with other data generating issues that the Agency is
16 involved with, such as HPV and other programs so that
17 there's a coordination of tests and protocols so that
18 we're not wasting time, effort, research --

19 **(End of Side 1 of Tape 2.)**

20 WARREN: -- inerts. And raises ultimately the
21 question dealing with transition to other products and
22 substitutes for those that you are, in fact, losing.

1 So there's a long series of, I think, complex
2 and complicated issues. And yes, 2003 sounds like a long
3 way off, but we're already working on the 2002 budget and
4 that time is really very short.

5 So we're really looking for some guidance from
6 the Agency as to how we might proceed in trying to
7 address some of the issues or concerns that are going to
8 be raised and would certainly recommend that perhaps we
9 put a topic like that on our next PPDC meeting and have a
10 briefing on that as to where we're going.

11 MS. MULKEY: Well, as you know, we have inert
12 that's been an issue that this committee has at least
13 spent some time with. Not just inerts disclosure issue,
14 which is an important one and has a work group, but you
15 remember we did discuss all the inerts issues.

16 There's some data compensation issues and
17 others. If this committee is interested in sort of un-
18 owning the inerts issue in a robust way, I think we have
19 thought in the past that it was an appropriate forum and
20 we continue to think that. So any other reactions to
21 that would be welcomed to hear.

22 I think Bob had his tent card up next, but Bill

1 seems to want to speak something that's more immediately
2 relevant.

3 MR. McNALLY: Yeah, Bill can go. I was just
4 trying to help you out. Yeah.

5 MS. MULKEY: Yeah.

6 BILL: I wanted to talk a little bit in general
7 about the value of PPDC. And specifically to Warren's
8 point which is one the things I'm concerned about is this
9 impending data call-in on inerts and the data
10 requirements in that.

11 And what that looks like is something that seems
12 to be bubbling up and we weren't really hear -- we were
13 here bearing different venues, very scary, very, you
14 know, demanding on these chemical producers in terms of
15 generating data.

16 And that seems to lack transparency to me in its
17 evolution. And I would have -- I mean, if it's coming
18 out next month having it be a PPDC issue at this point
19 seems kind of late. But to Warren's point, I think it's
20 a huge issue that needs to be addressed.

21 If this is the right forum for that, great. But
22 it needs to be addressed in some manner. I think you do

1 need to hear from stakeholders on it.

2 Okay, having said that, I have found my
3 experience on PPDC has been incredibly enriching. You
4 know, personally coming from the non-ag side, being able
5 to hear the breadth or the scope of what you guys have to
6 deal with in an agricultural sense. And on a lot of
7 different things, I've learned a tremendous amount.

8 I think my frustration has been of what value do
9 we provide to the Agency, or what do you ask of us. I
10 mean, we come, we spend a couple of days. I learn a lot.
11 I communicate a lot back to folks, but I kind of at the
12 end of the day wonder is this -- what is the value to the
13 Agency. Do you want more out of us?

14 I think the work groups look like a very good
15 mechanism of getting product, where the committee seems
16 advisory. You get maybe richer work out of these work
17 groups. And if that's a mechanism -- if the committee is
18 a mechanism to have the work groups, then I encourage us
19 to keep that going.

20 But I am wondering, you know, what value do you
21 guys get out of hearing from us?

22 MS. MULKEY: Do you have any thoughts? We've

1 talked once or twice about our giving you feedback about
2 what we heard and how we reacted to it. I actually made
3 some little feeble attempts to do a little bit of that
4 just in the course of this meeting.

5 Mindful that that was -- but if you have any
6 thoughts either here or later about -- we actually do
7 benefit enormously from hearing your perspectives. And
8 some of it influences the way we write our documents or
9 the way we choose how to spend our time and I'm not sure
10 we even have a conscious, full awareness of the link
11 between the kind of feedback we get here.

12 You know, we go away, say we're hearing these
13 things. And we may not remember whether we heard them
14 here or somewhere else and they influence them. So I'm
15 not sure we can have a perfect feedback loop, even if we
16 tried.

17 We would probably understate the extent to which
18 we are relying on you. But if you have any thoughts
19 about how -- I mean, what I think I hear you saying is
20 you're afraid that your input to us just goes into a
21 black hole and you have no clue about whether it's
22 valuable.

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1 UNIDENTIFIED MALE: I don't fear that. I wonder
2 -- and I'd actually like to hear from others on this who
3 have been on the committee for a while. Do they -- is it
4 a reciprocal kind of relationship. I mean, it's
5 certainly -- I learn a lot. There's a lot of education,
6 there's a lot of information download that happens here.

7 You know, we tend to then throw out some
8 thoughts back to you guys. So is that good enough?

9 MS. MULKEY: We experimented a little bit in
10 CARAT with having members prepare and present things like
11 we did. But you know, obviously on somewhat different
12 topics. So, in effect, you began to educate us and each
13 other.

14 And it was a little bit more sharing of and
15 maybe -- and part of what I think I hear you saying is
16 you feel that a certain amount of what you do is seat of
17 the pants. It's less prepared. It's more reactive, and
18 that given a different subject area, you might --

19 UNIDENTIFIED MALE: This is a -- you know, I
20 don't know if Bob shares it. I mean, this kind of easy
21 deal for me, anyway. I fly in. I sit around. I go
22 home.

1 MS. MULKEY: You didn't have any homework.

2 UNIDENTIFIED MALE: No, there's no homework.

3 You know, and you guys are working and putting together
4 and to your point earlier, sharing a tremendous amount of
5 the burden in this thing. And that works for me if it
6 works for you. But if you want something else, I
7 wouldn't be afraid to ask for it.

8 MS. MULKEY: Okay, that's helpful. Bob.

9 MR. McNALLY: Well, you know what, that's the
10 California way of saying the same things I was going to
11 say.

12 MS. MULKEY: You would say them with a lot more
13 intensity then, right?

14 MR. McNALLY: I would have more of a New York
15 approach. But it was very thoughtful and caring.

16 **(Laughter.)**

17 MR. McNALLY: I want to hug you.

18 UNIDENTIFIED MALE: Kumbaya.

19 MR. McNALLY: I just want to offer an opinion.
20 And the opinion is that I guess, I see the Committee as
21 serving two roles. One of which is for us to come to you
22 once in a while and say, gosh, you know what, there's

1 this issue out there. You people aren't paying enough
2 attention to and this is like a great opportunity for you
3 to create some process for that.

4 And residential exposure, I think, was an
5 excellent example of that being done. I thought, though,
6 from the beginning the more important role for this
7 Committee was to be something like a SAP-II. It's like a
8 stakeholder advisory panel. It's in the nature of what
9 you do that you have to confront contentious issues.

10 And I guess the normal course of dealing with
11 those issues in the absence of fora like these is that
12 you just sort of do things in back rooms and people
13 suspect that you did them for all the wrong reasons.
14 This creates an opportunity for you to get some honest
15 feedback and some public process and open discussion of
16 difficult issues.

17 So I kind of see this as a place where you come
18 to us with your concerns and we create some opportunity
19 for you to discuss them in a public way. And I think
20 it's been successful in that regard.

21 MS. MULKEY: Okay, Adriana.

22 ADRIANA: I was actually going to second the

1 suggestion on looking at inerts, not only for inerts, but
2 I mean in continuing along the lines of the whole
3 tolerance reassessment process.

4 I think it would be a good idea to have the PPDC
5 take part in the planning so that this work does get done
6 in time to facilitate things for EPA and for those who
7 are going to have to be submitting the data. So I would
8 just second that. I think that was a good suggestion.

9 MS. MULKEY: I should react to what Bill said.
10 Whatever initial data call-in might be issued whenever
11 it's issued, that's certainly not going to be the end of
12 or necessarily the biggest chunk of the issues that will
13 come up with inerts. So I don't think that should that
14 occur between now and the next meeting that would mean
15 that this issue would be moot or sort of too late.

16 BILL: Well, just specifically to that point, if
17 I may. There was a meeting with the biocides panel with
18 Rob Forrest and the folks who were working on this DCI a
19 couple of days ago, and their feedback to him was have
20 you coordinated these data requirements that you're
21 thinking of for these inerts with the HPV program and
22 they're barely aware of the HPV program, so --

1 MS. MULKEY: I think that was misleading.
2 Susie's been working on this. She might tell you a
3 little more on that.

4 MS. HAZEN: I'm surprised that that was the
5 response --

6 BILL: That's what I heard. I was not there for
7 those here.

8 MS. HAZEN: Oh, we have been working very, very
9 closely with OPPT on the HPV program and in fact, are
10 this close to being able to issue publicly a matrix of
11 the testing requirements for the various HPV programs all
12 along the lines to the kids testing program, the overlap
13 with DCIs and what that might be. So it's very active
14 and very coordinated for about the past six to nine
15 months.

16 BILL: Yeah, the word that -- that's great. I
17 mean, the word I heard was that the data requirements
18 were going to be different and that they weren't
19 coordinated. So I just --

20 MS. MULKEY: Go ahead.

21 MS. HAZEN: There certainly may be differences
22 in the data requirements between a voluntary program like

1 HPV and data call-in requirements.

2 What I am saying is that our efforts here have
3 been to lay out very clearly for the participants in the
4 HPV program as well as those who may be subject to DCIs
5 and those who want to participate in any of the other HPV
6 kind of voluntary programs, to lay out -- if you think
7 you're going to be covered by the DCI and you want to
8 participate in the HPV, here are the data requirements
9 for both of those.

10 Here's the overlap. If you want to be covered
11 under both programs, do this. If you're only interested
12 in HPV, do that.

13 BILL: So I can talk to you more about that.

14 MS. HAZEN: Absolutely. Please feel free.

15 BILL: Okay. Great.

16 MS. MULKEY: But one of the -- it is evident
17 that we have a transparency need if nothing else.

18 BILL: Right.

19 MR. ELWORTH: What is HPV mean?

20 MS. MULKEY: High Production Volume. It's a
21 program for non-pesticidal chemicals as well as
22 pesticidal, I guess. But --

1 UNIDENTIFIED FEMALE: It's the 12 hundred -- not
2 12 hundred. The high production volume chemicals off TRI
3 for which the basic data set has not been developed over
4 time.

5 MS. MULKEY: Because you know pesticides are the
6 most tested chemicals of all, with the possible exception
7 of drugs. And this is an idea of beginning information
8 on other kinds of chemicals. But it is a voluntary
9 program except that I think it's going to be -- become a
10 regulatory program, right?

11 BILL: There's a component of it, a kid testing
12 rule, which will become --

13 MS. MULKEY: Will become regulatory.

14 UNIDENTIFIED FEMALE: Probably.

15 UNIDENTIFIED MALE: And does it include a lot of
16 inerts, or not?

17 MS. MULKEY: There is some overlap with inerts.
18 I guess there's no overlap with actives because they're
19 all tested. Yeah.

20 ADRIANA: I just wanted to conclude my statement
21 real briefly.

22 MS. MULKEY: Sure. Absolutely.

1 ADRIANA: I think that the importance of keeping
2 our eye on that part of the inerts, I think it does
3 relate directly to the work group on inerts. Because the
4 work group and the people who I've talked to on the work
5 group are concerned with also how the data call-ins are
6 going to be done and whether or not that's going to end
7 up being part of the disclosure or dictate what's part of
8 the disclosure or dictate if it even is going to be a
9 part of the disclosure.

10 So I mean, I don't think we can really separate
11 them. So it would be important to have -- rather than
12 have -- send off a work group and then come back with a
13 lot of criticism really integrate that portion into it.

14 MS. MULKEY: Interesting. Jay.

15 MR. VROOM: I'd strongly advocate that the PPDC
16 not just for the next meeting, but at every meeting have
17 on the agenda some time associated with the big picture.
18 We talked about, you know, earlier, what percent of OPP
19 is dedicated resource for worker protection and how does
20 that look over time.

21 I think if PPDC regularly looked at that sort of
22 big picture, resource allocation in a little more detail

1 on a regular basis on achievement of goals that Joe
2 Merenda talked with us about yesterday afternoon. If you
3 made that a regular feature to allow us and I would
4 imagine it would be helpful also for you, on the Agency's
5 side, to continually get in the habit of looking at that
6 big picture.

7 Because there is so much detail that you can in
8 any one program area, you can fall into that and never
9 come out of it. And I think it would be very helpful to
10 always keep as a regular feature of every PPDC agenda
11 that big picture scope look updated.

12 Keep it into the continuum perspective because
13 you know, a number like 850 people on the OPP payroll
14 doesn't mean much unless you know how many that is
15 compared to a year ago and what you're anticipating, and
16 that 200 of them, you know, are, quote, at risk, because
17 of the uncertainty of the re-registration program
18 reauthorization and so on.

19 I think all of that is very important, but it
20 needs to be put into that larger picture in continuum.

21 MS. MULKEY: The kind of thing that Joe Merenda
22 presented yesterday, is that the kind of thing you mean?

1 MR. VROOM: Well, except for the fact that I
2 even forgot to ask him what your budget this year. You
3 know, what's the total dollars. Yeah, that's subject,
4 but with more complete detail and perspective, I think.

5 MS. MULKEY: Okay.

6 MR. VROOM: And I've got a couple of other
7 issues, but not really at sort of the level of agenda for
8 the next PPDC meeting.

9 MS. MULKEY: Well, do you want to go ahead and
10 mention them?

11 MR. VROOM: Sure. We have a growing concern and
12 this doesn't relate to OPP, it's OECA. The reduction I
13 think, now, to the number of staff dedicated to GLP
14 enforcement inspections has been cut by 30 percent. And
15 you'll probably tell me that's in part because Carol
16 Browner had to find money to make for the seven million
17 dollars.

18 MS. MULKEY: There probably is some relationship
19 between those two facts.

20 MR. VROOM: So I'll save you from having to make
21 that statement. But it's creating now a significant
22 problem for companies trying to market pesticides in

1 other countries that traditionally have deferred to and
2 accepted U.S. GLP laboratory test data.

3 More than one -- we've had one problem with one
4 South American country in particular over the years with
5 regard to acceptability of U.S. and European laboratory
6 data. But it's really spreading now because of this
7 reduction in the amount of staff that are doing GLP
8 inspections and just raising questions in the
9 international community about the credibility of U.S.
10 based test data.

11 And I think that's a problem that needs to be
12 addressed. And I'm sure that OPP has an interest in
13 that, even though this is not your direct line authority.
14 So that's one issue. I don't know if we can talk about
15 that now.

16 MS. MULKEY: Let me answer that very brief.
17 We've shown an interest in that in some very particular
18 ways. I'm very careful not to air internal agency
19 deliberations publicly. But we've shown an interest in
20 that. Have you attempted to engage OECA senior
21 leadership on this topic?

22 MR. VROOM: I think we have, but probably not

1 effectively and probably not on this most recent level of
2 concerns.

3 MS. MULKEY: Well, one of the things we can do
4 is offer our offices as -- so we could meet jointly with
5 you if there was that. (Inaudible).

6 MS. LINDSAY: Well, I was going to say, not the
7 senior most level, but at least at my level, there
8 actually have been meetings and discussions between OEKA,
9 OPP and ACPA. It's not that we've solved the problems
10 yet.

11 MR. VROOM: Right.

12 MS. MULKEY: But you've met with ACPA on this
13 topic?

14 MS. LINDSAY: On this very, very topic. And
15 we've talked about some possibilities of what can be done
16 on the credibility front, not so much on the OECA
17 resource problem.

18 MR. VROOM: Right.

19 MS. LINDSAY: Which doesn't mean that it can't
20 usefully be raised to higher levels, but I thought it
21 would be helpful for people to note that there's already
22 a discussion ongoing.

1 MS. MULKEY: I did not know that. I was -- I
2 mean, I've offered some memorandum and so forth. But
3 that's helpful to know that that's and important -- I
4 think we have a meeting on that tomorrow, too, with
5 another interest group.

6 MR. VROOM: What are there, like 1,500
7 laboratories in the United States that are GLP. I mean,
8 it's a big job.

9 MS. LINDSAY: Yeah, I mean, this is actually, I
10 think, in a way a chronic problem in that for countries
11 who want like regular annual GLP certification of
12 laboratories, there's never been the resources I think
13 since we've had a GLP program to do that level of
14 inspection.

15 We've piggy-backed on some FDA resources, but
16 you're still not going to get to every lab every year, or
17 every lab every other year, or every third year.

18 MR. VROOM: We think with six employees in OEKA
19 doing this, that you know, they can do maybe 25 or 30 a
20 year.

21 MS.LINDSAY: Yeah.

22 MR. VROOM: And there's 1,500 or so.

1 MS. LINDSAY: There's a disparity --

2 MS. MULKEY: And always has been, is what you're
3 saying.

4 MS. LINDSAY: Yeah, and Jay is right, though,
5 that there is some of the recent reorganizational efforts
6 have diminished still further the level of resources
7 there.

8 MS. MULKEY: And you had another item?

9 MR. VROOM: The 2001 company/agency priority
10 list, we are confused by which is which and how the list
11 got created, quarter by quarter, that Jim Jones has
12 shared with us recently and would like to have a little
13 more conversation on that.

14 MS. MULKEY: Yeah, absolutely, you're always
15 welcome. J.J.

16 DR. STEINBERG: Kind of hitting the agenda items
17 for 2001 and beyond. To me there were three high points
18 and a number of other smaller areas which I think will
19 evolve, but all very important. As I promised the data
20 center, and you need some central repository that will
21 supply the -- you need the perfect data page, the perfect
22 inventory. I think you should continue to strive to do

1 that to make that available to everyone. I think it
2 would be helpful to the public, helpful to academia,
3 unquestionably helpful to industry. If they had the
4 basic data, then everyone can contest whatever models
5 they want, but the data has to be easy, accessible, user-
6 friendly and of course, as we said, the perfect data
7 center.

8 UNIDENTIFIED MALE: Free, right?

9 DR. STEINBERG: Right.

10 UNIDENTIFIED MALE: Free?

11 DR. STEINBERG: But of course. Free, means that
12 they're coming out of the pockets of 275 million
13 Americans, all of us included. Labeling is coming back.
14 And labeling is -- we spoke a little bit about it. I
15 suspect that as time goes on, labeling will be as
16 important to everyone as it was to the industry, to the
17 American public, and to the EPA as it was when FDA went
18 through this.

19 So I think everyone needs to understand that
20 this is going to happen one way or another and I think
21 that's going to move along. I would not be surprised if
22 in two or three years, you have 50 people working on

1 this.

2 MS. MULKEY: Are you talking about ingredient
3 labeling?

4 DR. STEINBERG: I think ingredient labeling for
5 consumers, to make this available just like the FDA made
6 this available. As you well know, and I hate to mention
7 it, this was a multi-billion dollar cost to everyone
8 involved. It is going to happen. I think it's a good
9 time to start thinking about this across the board.

10 To me, one of the more exciting things that was
11 revealed was this EUP process because I think it's one
12 the future thinking processes that you know have with
13 industry and with the EPA. It's a wonderful opportunity
14 to get novel products and new ways of using products into
15 the pipeline. Any way that you could expedite that would
16 be terrific.

17 It's a way of catalyzing the next generation of
18 products that people will use which will be better and
19 safer and anything that you do that, I think is future-
20 forward thinking stuff. And I view that as very
21 exciting.

22 Smaller things, I would have liked a report,

1 even 15 minutes, on kids. That should be, Jay mentioned,
2 kind of reports as it relates to big picture stuff. That
3 was on my list. I'd like to see things related to kids.
4 I loved having ORD here. Again, a 15 to 30 report is a
5 minimum from ORD.

6 Obviously, the worker related issues, if we have
7 big issues related to that, we need to discuss it. If it
8 doesn't make a PPDC agenda, it should still be put on --
9 de riguer -- so that we can at least know what's going
10 on.

11 As Phil mentioned, we also need a technology
12 wizard somewhere in here to make sure that we can get
13 this information out. Maybe actually do this in real
14 time. Maybe make this available to many constituencies
15 across the country. And I think that technology is
16 available and I think that would be a great thing to do.

17 And, you know, I think the PPDC with the work
18 groups and with other potential workshops, I think it
19 delivers a very good product. I like the products. I
20 like the stuff that the rodenticide group did. I think
21 the committees are doing a good job in delivering on what
22 the PPDC should do.

1 And therefore, I think, it should be encouraged.
2 And obviously the staff did a great job in putting it
3 together.

4 MS. MULKEY: Hearing you -- we haven't -- EPA
5 has a new Office of Environmental Information. One of
6 the primary purposes of which, as I understand it, is to
7 provide a central focus to the development of data, the
8 making publicly available of data accessibility of data,
9 so among of the things we might facilitate your ability
10 to engage with that office, as with ORD. Hear straight
11 from them. Dan, I believe you were next.

12 MR. BOTTS: Looking around the table and
13 recognizing only probably four people who sat down at the
14 very first PPDC meeting back in 1995, right after the
15 shut down of the government, infamous shut-down of the
16 government, consider this gray beard concerns and whether
17 or not I volunteered to up for another term or not is
18 going to be totally contingent on whether my boss feels
19 he can justify the 200 segments a year on Delta flying
20 back and forth to Washington at our expense, by the way.

21 Just to bring some of the issues here today, one
22 of the frustrations that I've had over the history of the

1 organization is I don't think we've ever been utilized to
2 the degree that we could have been utilized to help the
3 Agency work through some of the more controversial issues
4 that have come before.

5 Not just tolerance reassessment and FQPA issues,
6 but other issues that are out there. And somehow the
7 work group mechanism, some of those kind of things need
8 to be fuller -- more fully developed, but it needs to be
9 developed with the help of the PPDC members. We need to
10 help you drive that process forward rather than relying
11 on staff resources at the Agency to do that.

12 And toward that end since we hammered the worker
13 part of it almost ad infinitum earlier, I'd like to
14 suggest that there be a -- essentially a three or four
15 member group put together of PPDC membership to help
16 frame how we would like to see this whole worker issue
17 brought forward. And maybe have that as a work
18 assignment between now and the next meeting.

19 And at the potential expense of the wrath of my
20 boss, I would like to volunteer to participate on such a
21 work group because it has been something that has in a
22 tremendous -- or focus group or whatever you want to call

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1 it -- to bring that issue back to this group to see,
2 explore how to move forward.

3 Some of the other issues that I think we need to
4 be advised of, and I really appreciate the presentation
5 by ORD and the Research Triangle Park Scientists on the
6 risk assessment information and that health based
7 information that was provided yesterday, but there's also
8 other research efforts at the Agency, the Environmental
9 Fate Lab out of Athens and the Cincinnati lab that looks
10 at anti-microbials and efficacy testing, some of those
11 issues.

12 I think some of those things would be as
13 interesting as the human health effects information if we
14 could just get brought up to date on what those labs are
15 doing in support of the programs and the decision process
16 at the Agency.

17 And just to hit on one particular point, the
18 presentation yesterday was amazing. I really enjoyed
19 that. But I think it would almost worth a field trip
20 down to their facility where you could get the individual
21 scientists that are directly involved as well as the
22 person overseeing it.

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1 So -- and have more of a real informational
2 distribution so we really see what information is being
3 generated, and beyond just the summary scope of the
4 information. That would -- I think that's almost worth
5 maybe on an invitation basis, if you want to come, come.

6 And we'll set it up, or facilitate setting it up
7 and then have that kind of discussion. I think you'll
8 get almost as large of an attendance at that kind of
9 meeting as you would at a formal PPDC meeting.

10 Recent PR notice on what was advisory language
11 versus enforceable language on labels. The Consumer
12 Labeling Initiative dealt with one segment. I share a
13 tremendous level of frustration with my membership on ag
14 labels and in being able to read and understand what they
15 actually mean, both from a use instruction standpoint, as
16 well as the environmental fate, restrictions and those
17 kind of things.

18 I would like to see a discussion of that whole
19 issue and the process because some of the labels that are
20 out there now, if you read every word on there like
21 you're supposed to do, they become contradictory to a
22 large degree.

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1 And I'm not real sure that in some cases that
2 it's -- based on the label language that accompanies the
3 product, that you could actually apply the product in
4 some locations, in particularly Florida.

5 Harmonization issues, we had a meeting with some
6 -- with an ACPA Committee on Tuesday afternoon discussing
7 harmonization with Canada or the NAFTA process. And
8 there's some labeling issues there, some worker issues,
9 some other things. It would be real interesting in the
10 long term focus of where impacts on OPP programs.

11 That whole harmonization issue, not only with
12 the NAFTA process, but OECD and EU issues and those kind
13 of things, there's a whole universe of emerging things
14 that come out of those type discussions that I think this
15 group needs to at least be briefed on so that they
16 understand that those are potential impacts as well.

17 What else? I think that pretty well covers my
18 list of agenda items and issues. But I just -- I would
19 really like to see this group become much more active
20 because of the discussion potential that you get in a
21 smaller group.

22 There's a lot more in-depth, relevant discussion

1 than you get at larger group, larger advisory group type
2 efforts. And I don't think we've fully reached the
3 potential of this group because of how we function and
4 the structure and the process. And I'm going to put some
5 of this in writing and get it to Margie, even though
6 she's tired of getting e-mails from me.

7 MS. MULKEY: Well, that's good. That's helpful.
8 We're trying to take good notes, but let me come back to
9 the first item you mentioned which is the worker issue.
10 And what I understood to be some interest in PPDC, my
11 word, owning the worker issue to some extent and from the
12 standpoint of Agency advisors. As you know, since you're
13 a member of CARAT, there has been a lot of vocal interest
14 in having that advisory committee embrace the worker
15 issue. We've not instantly accepted that, in part
16 because it is not within the subject matter of tolerance
17 reassessment or transition, at least not directly.

18 Do you think, through your good offices or
19 others, the ownership of that issue in organization as it
20 relates to advisory and stakeholder pieces, would
21 substitute. Because otherwise, I mean, we're going to be
22 looking at, you know, all the things you suggested and in

1 effect, to repeat them or double work them or something
2 in that forum as well.

3 MR. BOTTS: Personal opinion. There's so much
4 cross over representation between the two groups. You've
5 got a core group of people that are on both groups. And
6 it almost depends on how it's structured and how it goes
7 forward. I don't see that there is absolute ownership in
8 either place. I think that the actual work group aspect
9 and getting the understanding and getting it through the
10 process probably does more appropriately reside with PPDC
11 than it does with CARAT or any of the other FQPA advisory
12 groups just because of how those were structured and what
13 they were directed to. But that's not to say that it
14 wouldn't become an agenda update item for CARAT to say
15 this is what PPDC is doing. We'd like your advice on
16 whether we're addressing the issues that you want to go
17 forward with. It's not an either/or type situation in my
18 mind just because of cross over --

19 MS. MULKEY: Do you think there's a workable way
20 to keep --

21 MR. BOTTS: I think so. But I think you've got
22 to get more ownership at the committee level of the issue

1 in framing the process rather than coming in the way we
2 have.

3 And that's why I think it's going to take a
4 little bit of work and a little bit of effort to get down
5 a straw document that says this is what a subset of this
6 group thinks needs to be done to really get it to the
7 point where we're not doing a presentation that we're
8 going to end up having more questions on afterwards and
9 more focus to make it more meaningful, to get it directed
10 into a direction that can really be meaningful to the
11 largest audience possible.

12 MS. MULKEY: And let me ask you one more
13 question on that topic. If we were to start that
14 exercise by asking a group from this membership, mindful
15 as well that this membership as PPDC membership is going
16 to come to a close and we'll have a new membership, which
17 may have the same bodies, but legally is a new thing.
18 But if we were to start by asking that group to engage in
19 the exercise of planning the workshop that we've already
20 announced, would that be a productive first step?

21 MR. BOTTS: It depends on how far the planning
22 process has already gone on for the workshop, itself.

1 MS. MULKEY: Not very far. I can tell you that.

2 MR. BOTTS: Then it probably would be extremely
3 valuable, no matter whether the people that were involved
4 in the planning process of the existing PPDC now are
5 still on the PPDC down the road. I don't think that
6 makes any difference.

7 MS. MULKEY: That's helpful. Thank you. I
8 think Beth and then Larry, and then Jay, I think.

9 MS. MARSHALL: I heard Dan say that it's been
10 five years since we started this committee.

11 MR. BOTTS: I think it's six. I'm not sure. It
12 might be --

13 UNIDENTIFIED FEMALE: It was formed in '95, but
14 there was a --

15 MR. BOTTS: A gap before it started.

16 UNIDENTIFIED FEMALE: -- because the government
17 went down for a while.

18 MS. MULKEY: Two or three weeks.

19 MS. MARSHALL: You know, time flies when you're
20 having fun, I guess.

21 UNIDENTIFIED FEMALE: I know, but the funding to
22 do --

1 MS. MULKEY: I see.

2 MR. BOTTS: We got delayed by six months from
3 the first meeting because of a three month delay in
4 dollars coming out of budget.

5 MS. MULKEY: I see.

6 MS. MARSHALL: So I also want to echo some of
7 the things that Bill said. This has been a tremendous
8 learning experience for me. I have found myself over the
9 years always fascinated by what we talk about.
10 Frequently, very impressed with the quality of work that
11 OPP has done and continues to do. And sometimes,
12 infuriated and appalled at some of the things I hear. I
13 think you should demand more of the members of this
14 committee. I was active on two work groups very early in
15 the process. One designed a the infamous brochure that
16 went to --

17 UNIDENTIFIED MALE: Never to be seen, I'm sure.

18 MS. MARSHALL: Well, yes, I haven't seen any,
19 yes.

20 MS. LINDSAY: It's right outside, excuse me.
21 It's right outside.

22 UNIDENTIFIED MALE: The store.

1 MS. MULKEY: The store, he said.

2 MS. LINDSAY: No, it's been sighted in the
3 store.

4 MS. MARSHALL: A remarkably liberal store owner
5 is all I can say.

6 UNIDENTIFIED MALE: It never made it to the west
7 coast.

8 MR. BOTTS: It did make it to Florida. It's in
9 supermarkets in Florida.

10 MS. MARSHALL: But that thing is -- one of the
11 things that came up during that process was that this was
12 to be the beginning of an outreach, OPP outreach to the
13 general public. You have tremendous communication with
14 the direct stakeholders, the users and workers. But the
15 general public, I think, is still pretty oblivious to
16 what you do, and that's unfortunate for you and the
17 general public, too.

18 So I would like to see a topic, you know, where
19 have we gone since the brochure. What's happened since
20 the infamous brochure and should there be more infamous
21 brochures out there.

22 The other work group I was on was the ecological

1 standards work group. Now, the ecological standards work
2 group had a lot of homework. They actually, probably had
3 about six inches more paperwork than the rodenticide work
4 group had to read. And I think we all felt good about
5 what happened at that committee. So demand more. Don't
6 be afraid to ask us to do homework.

7 I guess that's --

8 MS. MULKEY: Okay. Thank you. Larry?

9 MR. ELWORTH: A couple of things. One is --
10 well, several things actually.

11 MS. MULKEY: What I want to know is can we meet
12 in Boone?

13 MR. ELWORTH: Sure, sure. Come into Asheville.

14 MS. MULKEY: I love Asheville.

15 MR. ELWORTH: One is I would echo what Dan said.
16 I like -- well, a couple of people have noticed who
17 aren't members of the committee, but noticed the
18 difference between this committee and CARAT and the
19 ability for people to be able to talk across the table to
20 each other rather than just to the Chair. And also to
21 the extent to which people do not have prepared
22 statements coming into the meeting as often happens in

1 CARAT.

2 MS. MULKEY: Do you think it's a function of
3 scale or a lot of other things?

4 MR. ELWORTH: I think it's a function of scale.
5 I think this committee predated some of the political
6 attention to the issues that subsequently happened from
7 Food Safety Advisory Committee on.

8 But I also think it's the issues, too. They
9 tend to be more technical in nature. And I actually wish
10 we had a better fight on the inerts thing. I think that
11 was shaping up. I think we could have had a better
12 argument going on. I'd like to see more of that.

13 MS. MULKEY: You like the little flavor that you
14 got.

15 MR. ELWORTH: Right. And as probably the most
16 significant source of Beth's frustration and irritation,
17 I'd like to see more of that, too, so --

18 MS. MULKEY: Why not.

19 MR. ELWORTH: One thing on work groups and it
20 goes back to, I think, all the work groups, I really
21 support and maybe expand on what Dan said as far as when
22 we set up work groups.

1 I think it's real important, a real useful step
2 in this would be to have a relatively, a committee of
3 only PPDC members to sit down and really talk about
4 outlining the scope of work or charge for the committee
5 before you bring in lots of other people.

6 I think that would make it clear what it was
7 that people wanted to accomplish from it, and also give
8 some structure to the committee. So it's a more direct
9 process. You can get from one place to the other. I
10 think that would be real helpful.

11 I do appreciate your raising the issue of the
12 intersection between CARAT and FIFRA and I think there
13 may be other issues and maybe residential is one of them
14 in which the focus from PPDC -- focus at least on the
15 issue in PPDC is a more natural fit over a longer period
16 of time than with CARAT.

17 And I do think it's possible to focus on an
18 issue here and then brief CARAT on the deliberations and
19 maybe engage that committee as well. So I don't think
20 that's especially difficult conceptually for people.

21 On issues, I would like to see PPDC focus in
22 whatever way is appropriate on worker and residential in

1 a substantive way, you know, on the risk assessments in
2 particular. One thing that came to mind as we've been
3 talking about worker is -- and I think there was some
4 international programs on worker.

5 And there was some junk that I couldn't go to
6 when I was in the government to Costa Rica which really
7 disappointed me. But there is some international stuff
8 the Agency is doing on worker protection, if I'm not
9 mistaken.

10 UNIDENTIFIED FEMALE: That's right.

11 MR. ELWORTH: And I think that's pretty
12 interesting work.

13 UNIDENTIFIED FEMALE: Yeah.

14 MR. ELWORTH: That's in the larger context of
15 the international program.

16 MS. LINDSAY: We're doing some specific stuff
17 actually through NAFTA. The literal worker protection
18 stuff is primarily focused on U.S./Mexico.

19 MR. ELWORTH: Right.

20 MS. LINDSAY: The applicator/handler stuff at
21 this point is primarily focused U.S./Canada. But in both
22 cases, we've also talked about, at least over time,

1 making it sort of a full tri-national continental
2 approach to an integrated worker safety program.

3 MR. ELWORTH: I mean, that's not a pressing
4 issue, but it's one of some interest. And by the same
5 token, we haven't talked about harmonization efforts on
6 the registration side with Canada in quite a while.

7 MS. MULKEY: We can mention that --

8 MR. ELWORTH: Yeah, and I think that's worth
9 doing. And the other thing that I -- we haven't talked
10 about in a while is the extent to which on some of these
11 FIFRA issues the Agency is looking at, in quotation
12 marks, benefits assessments, and how that's -- I mean
13 it's -- I mean you've got plenty to do, but I'd be
14 interested.

15 And I think it also has some bearing on the way
16 the department's really reordered its data collection
17 process to make it more accessible and relevant to the
18 agencies' uses. So I think it would be a useful
19 conversation between USDA and EPA.

20 And actually, one of the things I was going to
21 ask you if you would do, just briefly, you went through a
22 schedule yesterday of kind of the up-coming events with

1 CARAT on the work groups.

2 MS. MULKEY: On a couple of topics.

3 MR. ELWORTH: Could you go through them.

4 MS. MULKEY: I guess I could that right now
5 because it's not that long.

6 MR. ELWORTH: Please.

7 MS. MULKEY: On CARAT, the things I mentioned
8 were a two workshops and two work groups. A work group
9 on public participation and transition. Sort of the
10 public participation process issue and transition.
11 Apparently we are looking to solicit participation on
12 that very quickly. And the idea is that it might meet is
13 in late February and that's because it would be in
14 conjunction with when we think we would have the first
15 CARAT meeting.

16 MR. ELWORTH: You're thinking the next CARAT
17 meeting would be late February?

18 MS. MULKEY: February, and that's what Mike
19 McCabe said. And again, that's obviously a little tricky
20 date to commit to for obvious reasons.

21 MR. ELWORTH: Right.

22 MS. MULKEY: Assuming that CARAT continues as

1 everybody anticipates it will, to involve the senior
2 political leadership. But it's obviously possible to
3 have a meeting in which people acting in those positions
4 are included.

5 MR. ELWORTH: Um-hum.

6 MS. MULKEY: The work group on cumulative --
7 that was cumulative. I said transition, but I meant
8 cumulative. Oh, I'm really messing up. I'm tired. I'm
9 looking at the work group on cumulative would be to meet
10 in January to get started. And that's the one in which
11 we have early solicitation and to get started. The work
12 group on transition would have the meeting in February,
13 consonant (phonetic). In fact it's somewhat of a cost
14 saving, too, of everybody. Not just of our travel costs,
15 but everybody's costs and time, to have it with a
16 meeting. So cumulative gets started early because of the
17 public participation process needs to be ready for the
18 risk assessment. And so the idea is to get that started
19 so that we can combine those in time. And I think the
20 USDA has been particularly active in urging that. So the
21 cumulative work group gets an early start. Transition
22 work group, a little bit later start. The two workshops,

1 the worker one, as I said, we were planning on holding
2 off until March because we have these other workshops on
3 the worker protection program. And that's also
4 consistent with the idea of having some planning time.
5 And the other workshop is on --

6 UNIDENTIFIED MALE: Drinking water.

7 MS. MULKEY: Drinking water. And I believe
8 that's for early January. We were actually prepared to
9 do it in December. And I think we were lobbied by some
10 of you --

11 UNIDENTIFIED FEMALE: By the CARAT members.

12 MS. MULKEY: Oh, the CARAT members, by some of
13 the CARAT members that that was just -- wait until
14 January. So that's January. That workshop we're going
15 to -- you know, take some of the lessons we heard from
16 you guys about making it as meaningful. One of the
17 things I'm curious to know was whether some kind of break
18 out groups as part of a workshop get you a little more of
19 this flavor of a work group meeting and so that's one of
20 the ideas I took away from this is I don't know how many
21 of you attended the cumulative. It was not really a
22 whole day. It ran until about 2:00 or 3:00. If we

1 really did a whole day, we could have had sort of a
2 morning deep downloading, a two hour work group and then
3 some. So, you know, if you're really make these a whole
4 day, you can do some things to try to make it more
5 meaningful. So that's one of the things we'll try to
6 factor into that.

7 MR. ELWORTH: I would to the extent that it's
8 possible would urge to do the worker as soon as possible
9 since those assessments are ongoing.

10 MS. MULKEY: We understand. We talked about
11 that in that trade-off and the importance of that.
12 That's why I also heard you -- I think the case study
13 which is the -- appears to me to be the single best thing
14 to do around transparency.

15 I think we're going to look for an opportunity,
16 whether it's a technical briefing that we just say we're
17 going to do an extra, you know, period on worker, case
18 study, or whether, you know, time it so it's the same
19 people and the same case, or something else. And I'm
20 just doing this off the top of my head.

21 UNIDENTIFIED FEMALE: I think their input is
22 needed to help us --

1 MS. MULKEY: Oh, I know so --

2 UNIDENTIFIED FEMALE: -- to figure out what it
3 is we're not --

4 MS. MULKEY: -- a case study. Right. But I
5 think we're going look for some opportunities to get some
6 things going on transparency, at least.

7 MR. ELWORTH: Yeah, and I would at least to the
8 extent my sanity is possible --

9 MS. MULKEY: You're going to volunteer, too?

10 MR. ELWORTH: Yeah, I mean I took seriously what
11 you said. If you all want to get this work done, could
12 you all pitch in a little bit?

13 MS. MULKEY: Yeah.

14 MR. ELWORTH: And the other thing is I
15 appreciate having USDA here. I know that when we set up
16 PPDC, it wasn't -- this is different from CARAT in the
17 sense that it's not the two senior leaderships.

18 MS. MULKEY: Right.

19 MR. ELWORTH: But I think it's real helpful to
20 have USDA here, both its representatives and I really
21 appreciate that.

22 MS. MULKEY: I do, too. And FDA and you know,

1 perhaps, sometime CDC. And I think we offer to you
2 guidance of whether we ought to do more to share the
3 leadership of some sessions with other federal agencies.
4 So if you have input or thoughts about that, I think
5 we're open on that. Jay?

6 MR. C: I liked Larry's idea about focusing on
7 benefits. And I would suggest that maybe that be a
8 regular agenda item. Some segment at every PPDC meeting
9 to talk about the benefits because almost everything we
10 talk about relates to risk assessment, risk management,
11 risk mitigation.

12 And I'm trying to get out of that discipline,
13 just internally. So I think that would be a healthy
14 thing to strive to try to do. Not to manufacture
15 something, but just to make sure we're thinking about
16 that side of the equation all the time.

17 MS. MULKEY: The very brief presentation we had
18 yesterday on use and usage --

19 **(End of Side 2 of Tape 2.)**

20 MS. MULKEY: -- effect of that makes sense
21 routinely.

22 UNIDENTIFIED MALE: The other topic I don't

1 think I've heard mentioned which is reemerging and the
2 representative from the City of Seattle mentioned salmon
3 yesterday. But the convergence of pesticide regulation
4 and the Endangered Species Act is coming back around.

5 MS. MULKEY: We've noticed.

6 UNIDENTIFIED FEMALE: It's converged.

7 MS. MULKEY: We have several. I think the right
8 number is several filed lawsuits that we're defending.
9 Two at least.

10 MS. LINDSAY: Well, we have several notices that
11 have been filed, one of which has moved from the notice
12 stage to a lawsuit stage, and the others have not.

13 MS. MULKEY: All right. There's still notices
14 of intent.

15 MS. LINDSEY: The two big ones involve salmon.

16 MS. MULKEY: All right. Theresa.

17 MS. MURTAGH: I just wanted to comment. I could
18 see with the worker topic this morning, with the
19 mechanisms that are in place to protect workers, the risk
20 assessment for measurement and also the WPS for
21 medicating health effects. But we find that this is
22 really based on compliance where there are a number of

1 growers who are complying, but we're finding in our
2 experience the overwhelming percentage are not complying.
3 Which -- although these mechanisms are in place, because
4 of lack of compliance, the reality is that workers are
5 being exposed to pesticides that are giving them both
6 acute and chronic health effects. So I'd like to see
7 more -- one of the priorities for here, too, is to use
8 this as a venue, not only the national assessment that's
9 been going on and especially for next month, but also use
10 the PPDC to address issues such as reporting, enforcement
11 and also more health data regarding farm workers,
12 especially the chronic effects.

13 I mean, I could see from the list here, this is
14 a very diverse group with very different interests. But
15 I think a common interest we all share is health and
16 safety of workers and growers and the families. So to
17 try to use this as a mechanism to address when compliance
18 is not happening.

19 MS. MULKEY: This is the, at least, the second
20 and maybe the third or fourth time that I've heard
21 enforcement, compliance and that part of our mission,
22 EPA's mission.

1 So I've heard information, research,
2 enforcement/compliance. We pretty much, the
3 communication activities internal to OPP, there is a
4 press office. And they have some involvement with these
5 matters, but -- so I think I'm hearing a theme here that
6 integrating the rest of our agency with the work of this
7 organization in some more robust way would be welcomed.

8 And that of course, includes our regional
9 offices. And we hear you. It's not easy. But it
10 certainly makes sense. Well, I think, Phil, you might
11 wind up having the last word which seems sort of
12 suitable.

13 MR. BENEDICT: Probably that's wrong. I want to
14 thank you. This has been very rewarding for me. I've
15 really enjoyed it. I always get a lot out of coming to
16 these meetings. I do think, though, that you could
17 challenge us a little more. I think you could give us
18 briefing. I think we do have the best discussions when
19 we have the briefing papers ahead of time. And spend
20 more time talking about those issues. And I really think
21 that we need the dialogue here. So I think you could get
22 in -- Margie's good about sending the stuff. I didn't

1 read the rodenticide thing that was this thick, but I
2 read everything else that came to me.

3 MS. MULKEY: They insisted that you get this,
4 you understand. They were hoping somebody would, I
5 think.

6 MR. BENEDICT: So I guess I would challenge you
7 to challenge us more and spend more time dialoging. The
8 other thing that I personally think has been missing here
9 and I understand why it's going on. When you have brand
10 new laws that are very complicated to implement, and
11 there's a lot of science behind it, you need to bring
12 people up to speed on all of those issues.

13 But at some point, I really think some group
14 needs to talk about more -- and Jay said it, more long
15 term planning, long term direction. For example, we had
16 a subcommittee, a work group at one time on environmental
17 measures. They never did very much.

18 I really still think that it's extremely
19 important for all of our programs, either there's a
20 federal law that says now you're supposed to be doing
21 things to show these kinds of measures. Having a
22 dialogue around what we can use in the states and the

1 federal agencies.

2 And to me, the pesticide program is more than
3 OPP. It's OPP, it's -- and it's also your sister agency
4 there that does enforcement. Having those people to the
5 table is very important. To have in the USDA is
6 important. Having all the players are -- well -- so,
7 from your leadership, if you could drag some of those
8 people to the table, I think it would help.

9 And also, if we could begin to spend a little
10 bit of time and have somebody or this body spend a little
11 bit of time on kind of being a little bit visionary on
12 where the program is going, and how we can do a better
13 job of measuring what we've done, I think everybody would
14 benefit.

15 MS. MULKEY: All right. Well, we have some
16 public commentators and we have plenty of time and we'll
17 still be through early. So we'll go to them now. By my
18 count, three, because I'm assuming, Theresa, you no
19 longer since we had made that mistake. The first name I
20 have, the handwriting is just vague enough that it looks
21 for all the world like the name is Dan Glickman
22 (phonetic). Now my guess is that we do not have Dan

1 Glickman with us today. Dan, is it Gluxman? From an
2 organization called ISEA, I S E A. Interested in talking
3 about occupational exposure. Well, maybe Dan came and
4 left.

5 UNIDENTIFIED MALE: Maybe he was the Secretary.

6 MS. MULKEY: Yeah, maybe it was. Lori Berger,
7 California Minor Crops Council.

8 MS. BERGER: Yes, my name is Lori Berger. And
9 I'm with an organization, the California Minor Crops
10 Council, which is a coalition of growers from stone
11 fruits, citrus, strawberries, kiwi fruit. We've got
12 about 15 commodities that are members of this
13 organization. And I also sit on CARAT.

14 And I'd like to comment that I really enjoyed
15 observing your meeting. I've really appreciated the
16 dialogue that you all do have across your table. And I
17 hope that CARAT will evolve. I don't know if it's a
18 matter of size or history, but I think it's really good
19 how much conversation does go on across the table.

20 I just wanted to make a couple of comments. One
21 relative to a topic covered yesterday, and that has to do
22 with EUPs. These are very, very important as we move

1 into reduced risk scenarios and so forth. The acreage
2 considerations, I would really appreciate the opportunity
3 to have input on how many acres these commodities get to
4 test out new products.

5 If there's a formula that can be devised, rather
6 than just a 100 acres per minor crop, we really need to
7 look at that more closely for the benefit of these
8 growers as they move into new types of pest management,
9 especially orchard crops. Just -- we need to look at
10 that more closely.

11 Also, the watershed considerations, Rick Kegwin
12 (phonetic) did comment that there was going to be room
13 for adjusting the comments or the requirements for the
14 watershed. But I think we really need to be careful when
15 we determine the EUP requirements with regards to
16 watershed because that could be extremely limiting to our
17 ability to test these new materials or old materials
18 across the wide variety of circumstances and situations
19 that we have in many of these states.

20 And I also just wanted to say that we really
21 appreciate the agency moving towards putting the EUPs
22 outside of the priority ranking for the registrant. We

1 really do see, though, we need to be able to have these
2 on new chemistries as well. So anything we can do along
3 those lines to have new chemicals evaluated with this new
4 set of circumstances would be very helpful.

5 Then the second area that I wanted to comment on
6 has to do with the workshops on worker protection. I did
7 participate in the cumulative risk workshop and I was
8 also disappointed that not more of my CARAT colleagues
9 were there. I think part of that might have been there
10 wasn't a whole lot of lead time and I think people are
11 really interested in that.

12 And for those of us wanting to have more
13 dialogue, those opportunities for education are extremely
14 important. So I really appreciate that, both the
15 opportunity just for those workshops and the fact that
16 you literally do provide resource for us to travel to
17 those meetings. That makes a real big difference for
18 those of us representing grower groups. So thanks for
19 that.

20 And let's see, just if you can try to schedule
21 those meetings in conjunction with PPDC or CARAT, I think
22 that you will have greater participation. And anything

1 that we can do from the field level to support your
2 efforts and get more people involved, whether it's
3 getting people back here to Washington, or setting up
4 some of these teleconferencing seminars, just please let
5 us know. So those are my comments. Thank you.

6 MS. MULKEY: Thank you. Well, as we solicit
7 written public comment on the EUP proposal, we hope your
8 organization will be able to weigh in and give us -- not
9 that we didn't listen today, but give us maybe some
10 specific suggestions or options around these issues that
11 you raised.

12 And Julie Spagnola, who works with Beyer, Buyer
13 --

14 MS. SPAGNOLA: Beyer, Buyer, U.S.. This will be
15 pretty quick. So I won't keep you much longer and I'm
16 glad Lois is still here because I really wanted to talk
17 about the value of the conference calls and the process
18 and especially involving the state -- the
19 user/stakeholders.

20 The input that they've been able to provide in
21 this process is getting the agency and the registrants a
22 lot of information about actual use practices and the

1 situations that they encounter, you know, that the users
2 encounter in applying products.

3 And I think we've seen the range of this input,
4 you know, the involvement going from the conference calls
5 to presentations, all the way to OPP staff going to
6 Florida and going up in helicopters to see how mosquito
7 control applications were made.

8 And I think this has just been absolutely
9 invaluable to the agency and to the registrants as we go
10 through this process in coming up with the most -- you
11 know, the most informed and, I think, ultimately, most
12 effective risk mitigation measures. Because I think by
13 knowing exactly how products are being used and the
14 situations encountered, we can, you know, make the best
15 decisions.

16 And I guess I would also, you know, encourage
17 the agency even to consider maybe soliciting some of this
18 input from the user community early in the process, even
19 into the risk assessment process, so that maybe some of
20 those inputs can be put into the assessments and not, you
21 know, and help come up with a more refined assessment
22 that then, you know, prior to going to the mitigation.

1 So, again, I just think that that input from the
2 user community has just been really valuable and our
3 experience. And I think we've probably been -- Beyer's
4 probably been in more conference calls with the Agency
5 than probably anyone. So it's really been -- I think
6 that's been something that we have learned through the
7 process. Thank you.

8 MS. MULKEY: Thank you. Well, by my
9 understanding, we have come to the conclusion of this
10 last meeting of this Chartered Pesticide Program Dialogue
11 Committee. Thank you for your service. Thank you for
12 these two days.

13 Jim asked that I particularly thank you on his
14 behalf. He, you know, the hot issues -- he's around, so
15 you may get a chance to greet him as you go out. But he
16 wanted to be sure that you understood his desire to share
17 the salute to your service and to thank you.

18 And we, of course, look forward to seeing all of
19 you because all of you matter to us in our program
20 whatever your next incarnation is in dealing with us.
21 Whether it's as a part of this committee as we
22 reconstitute it or whether it's a part of some other

1 means, by other committees or otherwise.

2 We are really glad that our colleagues from the
3 USDA and FDA and Canada were here. We're going to try to
4 do more and better with that regard. My brother is a
5 senior ORD official, so I entertained a group of them
6 last night.

7 But one of the things I instilled in them was
8 how valuable their presence was at this meeting. And it
9 was that they are trying to sort of think more in terms
10 of outreach and customer service.

11 And so I think this is a sort of a fertile time,
12 not to mention that I know somebody there for us to get
13 them involved. He's at the Cincinnati lab, Associate
14 Director for ECO. So good-bye, good days, see you soon.

15 UNIDENTIFIED MALE: Happy new year.

16 (Whereupon, the meeting was
17 concluded.)

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CERTIFICATE OF TRANSCRIPTIONIST

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